

# Generic Risk Assessment

| Title/ Description   |   | Heavy (Adverse) Weather Encounter   |  |   | FS-01-IMS13-001 - Bridge Procedures                                     |  | GRA. No | FS-01-IMS03-001-B-004    |   |  |  |
|--|---|---|--|---|---|--|---------|--------------------------|---|--|--|
| Reference Source   |   | ICS Bridge procedures guide   |  | IMS Procedure   |   | Life Saving Rule   |         | Line of Fire             |   |  |  |
| Tasks  |   | A: Hazard   |  | B: Initial Risk   |   | C: Controls  |         | D: Residual Risk         |   |  |  |
|  |   | Hazard Description and Effect   |  | Personnel at Risk   |   | Potential Severity   |         | Likelihood of Occurrence |   |  |  |
|  |   | Risk Rating   |  |   |   |  |         |                          |   |  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                                  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administrative<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  |         |                          | Potential Severity<br>From matrix, identify consequence with controls in place for each hazard. (1-5) | Likelihood of Occurrence<br>From matrix, identify likelihood with controls in place for each hazard. (A-E) | Risk Rating<br>Classify risk rating from matrix for each hazard. (high, medium or low) |
| Vessel preparation for adverse weather navigation              | H – Lack of awareness<br>H – Inexperienced crew<br>H- Inadequate vessel preparation<br>H – Inadequate weather forecast<br>H – Human factors<br>H – Work organization and social factors<br><br>E – Equipment / vessel damage<br>E – Injury<br>E – Fatigue | Personnel on board  | 3  | C   | C3  | 1. Consider route deviations to avoid or minimise adverse weather encountered (S)<br>2. Consider identification of ports of refuge or shelter areas (S)<br>3. Organise battening down of complete vessel (En)<br>4. Check sea fastening of equipment and reinforce if required (En)<br>5. Follow adverse weather procedure (A)<br>6. Obtain and Monitor weather forecasts (A)<br>7. Brief crew about adverse weather and appropriate behaviour (A) and appropriate personnel in full awareness of reduced capabilities (A)<br>8. |         |                          | 2   | C  | C2   |

Generic Risk Assessment

| Heavy (Adverse) Weather Encounter  |  |   |  | FS-01-IMS13-001 - Bridge Procedures   |   | Life Saving Rule  | GRA. No  | FS-01-IMS03-001-B-004   |
|--|--|---|--|---|---|---|--|---|
| Title/ Description   | ICS Bridge procedures guide  |   |  | IMS Procedure   |   | Line of Fire  |  |   |
| Reference Source   | Heavy (Adverse) Weather Encounter  |   |  | FS-01-IMS13-001 - Bridge Procedures   |   | Life Saving Rule  |  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  | C: Controls   | D: Residual Risk  | Risk Rating   |  |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence.   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)   | Classify risk rating from matrix for each hazard.<br><b>(high, medium or low)</b> | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>(high, medium or low)</b> |
|  |  |   |  |   |   |   |  |   |
|  |  |   |  | 9. Restriction on use of dedicated spaces such as Gym, warning sign posted. (A)<br>10. All personnel involved to comply with cultural awareness and no harassment policy (A)<br>11. Be aware of crew capabilities, limitations and other personal characteristics of each crewmember related to bad weather navigation, and if possible, arrange work on board accordingly (A)<br>12. If possible, reduce workload before bad weather. Comply with work and rest hours. (A) |   |   |  |   |
| Emergency preparedness for potential emergency situation (including Bad weather, poor visibility, insufficient | H – Fire Emergencies<br>H – Health Emergencies<br>H – Nautical Emergencies<br>H – Environmental Emergencies<br>H – Equipment Failure Emergencies   | Personnel on board  | 4  | C   | C4  | 4   | A  | A4  |

| Heavy (Adverse) Weather Encounter                              |  |   |  | FS-01-IMS13-001 - Bridge Procedures   |   | Life Saving Rule  | GRA. No   | FS-01-IMS03-001-B-004  |
|--|--|---|--|---|---|---|---|--|
| Title/ Description   | ICS Bridge procedures guide  |   |  | IMS Procedure   |   | Line of Fire  |   |  |
| Reference Source   | Heavy (Adverse) Weather Encounter  |   |  | FS-01-IMS13-001 - Bridge Procedures   |   | Line of Fire  |   |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   |   | D: Residual Risk  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.   | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>(high, medium or low)</b> |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
| manning, capsizing, sinking)                                   | H – Search and Rescue - SAR - Emergencies<br>E – Death<br>E – Injury/illness of personnel<br>E – Damage to vessel<br>E – Loss of vessel<br>E – Damage to 3rd party property  |   |  |   |   | 14. Adhere to FS-01-IMS17-001 Emergency Response Manual (A)<br>15. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>16. Emergency contacts available (A)<br>17. Emergency equipment is available and maintained as per PMS (A)   |   |  |
| Heavy (adverse) weather navigation                             | H – Ingress of water<br>H – Loss of stability<br>H – Loss of Power<br>H – Loss of propulsion<br>H – Unwell feeling, restricted capabilities of personnel<br>H – Dehydration<br>H – Insufficient meals prepared/ consumed<br>H – Loss of equipment to sea<br>E – Fatality<br>E – Loose parts, body impact and injury. | Personnel on board  | 4  | C   | C4  | Control measures 1 to 12, as applicable<br>18. Galley equipment secured and food preparation limited to what is possible considering ship movement. (S)<br>19. Outdoors/ exposed areas, restricted as per Master orders. (I)<br>20. Vessel speed and course to be adjusted to limit weather effects (En)<br>21. Backup power supply available and tested (En)     | 4   | A  |
|  |  |   |  |   |   |   |   |  |

| Title/ Description   |  | Heavy (Adverse) Weather Encounter   |   | FS-01-IMS13-001 - Bridge Procedures  |  | Life Saving Rule   |  | GRA. No   | FS-01-IMS03-001-B-004  |
|--|--|---|---|--|--|--|--|---|--|
| Reference Source   | ICS Bridge procedures guide  | IMS Procedure   |   | C: Controls  |  | D: Residual Risk   |  | Line of Fire  |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk   | Risk Rating  | C: Controls  | Potential Severity   | Likelihood of Occurrence   | Risk Rating   |  |
| Separate the job into individual tasks and record in sequence. | <p>Hazard Description and Effect</p> <p>Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).</p> <p><b>Note:</b><br/>Additional hazards may be caused by interaction with other work.</p>  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | <p>Potential Severity</p> <p>From matrix, identify consequence with no controls in place for each hazard. (1-5)</p> | <p>Likelihood of Occurrence</p> <p>From matrix, identify likelihood with no controls in place for each hazard. (A-E)</p> | <p>Risk Rating</p> <p>Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b></p>   | <p>Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows</p> <p>E= Elimination<br/>S= Substitution<br/>I = Isolation<br/>En= Engineering Controls<br/>A= Administration<br/>PPE= Personal Protective Equipment.<br/>All controls must be valid in that they reduce severity, likelihood or both.</p> | <p>Potential Severity</p> <p>From matrix, identify consequence with controls in place for each hazard. (1-5)</p> | <p>Likelihood of Occurrence</p> <p>From matrix, identify likelihood with controls in place for each hazard. (A-E)</p> | <p>Risk Rating</p> <p>Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b></p> |
|  | <p>E – Pinch points.</p> <p>E – Slips, trips &amp; falls</p> <p>E – Spills / oil pollution</p> <p>E – Vessel equipment damage</p> <p>E – Financial loss</p>  |   |   |  | <p>22. Anti-slip painting on deck (as applicable). (En)</p> <p>23. Observation camera's with monitors on Bridge (if equipped). (En)</p> <p>24. Onboard Medical facilities on standby, seasickness' pills distribution, as required (A)</p> <p>25. Monitor secured equipment and improve lashings if required (A)</p> |  |  |   |  |
| Heavy (adverse) weather in port                                | <p>H – Ingress of water</p> <p>H – Loss of stability</p> <p>H – Loss of Power</p> <p>H – Unwell feeling, restricted capabilities of personnel</p> <p>H – Dehydration</p> <p>H – Insufficient meals prepared/ consumed</p> <p>H – Damage to mooring line/ equipment</p> <p>H – Vessel contact with quay/berth</p> | Personnel on board  | 4   | C  | C4   | <p>Control measures 1 to 12, as applicable</p> <p>26. Consider shifting vessel to anchorage or shelter area (S)</p> <p>27. Galley equipment secured and food preparation limited to what is possible considering ship movement. (S)</p> <p>28. Outdoors/ exposed areas, restricted as per Master orders. (I)</p> <p>29. Backup power supply available and tested (En)</p>            | 4  | A   | A4   |



## Generic Risk Assessment

| Title/ Description   |  | Heavy (Adverse) Weather Encounter  |  |   | GRA. No |  | FS-01-IMS03-001-B-004 |   |  |  |  |
|--|--|--|--|---|---------|--|-----------------------|---|--|--|--|
| Reference Source   |  | ICS Bridge procedures guide  |  | IMS Procedure   |         | FS-01-IMS13-001 - Bridge Procedures  |                       | Life Saving Rule  |  | Line of Fire   |  |
| Tasks  |  | A: Hazard  |  | B: Initial Risk   |         | C: Controls  |                       | D: Residual Risk  |  |  |  |
|  |  | Hazard Description and Effect  |  | Personnel at Risk   |         | Potential Severity   |                       | Likelihood of Occurrence  |  | Risk Rating  |  |
| Separate the job into individual tasks and record in sequence. |  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. |  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. |         | From matrix, identify consequence with no controls in place for each hazard. (1-5) |                       | From matrix, identify likelihood with no controls in place for each hazard. (A-E) |  | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> |  |
|  |  | E – Fatality<br>E- Loose parts, body impact and injury.<br>E – Pinch points.<br>E – Slips, trips & falls<br>E – Spills / oil pollution<br>E – Vessel equipment damage<br>E – Financial loss<br>E – Loss of reputation    |  |   |         |  |                       |   |  | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> |  |
|  |  |  |  |   |         |  |                       |   |  |  |  |
| Assessor's Name(s)   |  |  |  | Reviewers Name(s)   |         |  |                       |   |  |  |  |
| Miguel Ganuza, Melvin Fernandes (Initial 2021)                 |  | Muru Palaney, Tommaso Perelli (Initial 2021)   |  | Muru Palaney, Tommaso Perelli (Initial 2021)  |         | Date   |                       | 1 September 2022  |  | Time   |  |
| Marino Buselic, Vijay Mundath (Review 2022)                    |  | Tommaso Perelli, Muru Palaney (Review 2022)  |  | Tommaso Perelli, Muru Palaney (Review 2022)   |         | Approval   |                       | FS  |  | Rev. No  |  |
|  |  |  |  |   |         | Next Review date   |                       | 31 August 2023  |  | Date   |  |
|  |  |  |  |   |         |  |                       |   |  | 1 September 2022   |  |
|  |  |  |  |   |         |  |                       |   |  | 01   |  |
|  |  |  |  |   |         |  |                       |   |  | 1 September 2022   |  |

D4

## Generic Risk Assessment

| Title/ Description   | Control of Substances Hazardous to Health (COSHH)  |   |  |   |   |   | GRA. No  | FS-01-IMS03-001-B-005   |
|--|--|---|--|---|---|---|--|---|
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers  | Personnel at Risk   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work - Control of Substances Hazardous to Health (COSHH) | Life Saving Rule  | Line of Fire  |  |   |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   |   | D: Residual Risk  |  |   |
|  | Hazard Description and Effect  | Potential Severity  | Likelihood of Occurrence   | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |   |  |   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)           | Classify risk rating from matrix for each hazard. (high, medium or low)   | From matrix, identify consequence with controls in place for each hazard. (1-5)   | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
|  |  |   |  |   |   | 8. All personnel involved to comply with cultural awareness and no harassment policy (A)<br><br>9. All crew involved shall be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A)<br><br>10. Plan work schedule and regular breaks, comply with work and rest hours (A)<br><br>11. Every crew member has the right to refuse to work with Substances Hazardous to Health, comply with speak up policy (A)<br><br>12. Use, handle and store substances as described in SDS and COSHH assessment (A).<br><br>13. Ensure compatibility when multiple substances are used (A) |  |   |

## Generic Risk Assessment

| Control of Substances Hazardous to Health (COSHH)              |  |   |  |   |  | GRA. No   | FS-01-IMS03-001-B-005  |
|--|--|---|--|---|--|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work – Control of Substances Hazardous to Health (COSHH) |  | Life Saving Rule  | Line of Fire   |
| Tasks  | A: Hazard  |   | B: Initial Risk  |   | C: Controls  | D: Residual Risk  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)           | Classify risk rating from matrix for each hazard.<br><b>(high medium or low)</b> | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |  |   |  |   |  |   |  |

| Control of Substances Hazardous to Health (COSHH)  |   |   |   |   | GRA. No   | FS-01-IMS03-001-B-005  |   |  |   |
|--|---|---|---|---|---|--|---|--|---|
| Title/ Description   |   |   |   |   |   |  |   |  |   |
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers   | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work – Control of Substances Hazardous to Health (COSHH) |   | Life Saving Rule  | Line of Fire   |   |  |   |
| Tasks  | A: Hazard   | B: Initial Risk   |   | C: Controls   | D: Residual Risk  |  |   |  |   |
|  | Hazard Description and Effect   | Personnel at Risk   | Potential Severity  | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administrative<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence.   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                                | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5)          | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
|  |   |   |   |   |   | 22. Familiarization with use of eye wash station (A)<br>23. 'Stop the Job' Policy (A).<br>24. Use SLAM before the work starts (A).<br>25. Use of PPE as per PPE Matrix and as stated on the SDS (PPE).<br>26. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)<br>27. Adhere to FS-01-IMS17-001 Emergency Response Manual (A)<br>28. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>29. Emergency equipment is available and maintained as per PMS (A) |   |  |   |
| Emergency preparedness for potential emergency situation (Fire, Contaminations, burns, poisoning, skin irritations, eye irritations) | H – Fire Emergencies<br>H – Health Emergencies<br>H – Environmental Emergencies<br>H- Incorrect use of substance<br>H – Untrained personnel<br>E – Death<br>E - Injury/illness of personnel<br>E – Damage to vessel<br>E – Damage to 3rd party property | Personnel on board  | 4   | C   | C4  |  | 4   | A  | A4  |

| Control of Substances Hazardous to Health (COSHH) |   |   | GRA. No   |   | FS-01-IMS03-001-B-005   |   |   |  |   |
|---|---|---|---|---|---|---|---|--|---|
| Title/ Description                                | Control of Substances Hazardous to Health (COSHH)   |   |   |   |   |   |   |  |   |
| Reference Source                                  | Code of Safe Working Practices for Merchant Seafarers   | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work - Control of Substances Hazardous to Health (COSHH) |   | Life Saving Rule  | Line of Fire  |   |  |   |
| Tasks   | A: Hazard   | B: Initial Risk   |   | C: Controls   | D: Residual Risk  |   |   |  |   |
|   |   | Personnel at Risk   | Potential Severity  | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
|   |   | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5)          | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
|   |   |   |   |   |   | 30. Following storage requirements and segregate incompatible substances as required as per procedures and SDS (I).<br>31. Product shall be put in quarantine in case no SDS available (I).<br>32. Designated COSHH locker available onboard, well-lit and ventilated (En).<br>33. Storage facility to be provided and maintained with suitable fire detection and suppression system (En).<br>34. Restrict the access to the substance to authorised personnel only (A).<br>35. If signs of leakage are present effort to be made to repack the container (A).<br>36. Storage space to be regularly inspected (A). |   |  |   |
| Storage of Substances Hazardous to Health         | H – Incorrect substance storage<br>H – Adverse release of substance<br>H – Contact with substance<br>E – Injury<br>E – Fire<br>E – Explosion<br>E – Environmental Spill | Personnel on board  | 4   | C   | C4  |   | 3   | B  | B3  |

Generic Risk Assessment

| Control of Substances Hazardous to Health (COSHH)              |   |   |  | GRA. No  | FS-01-IMS03-001-B-005   |
|--|---|---|--|--|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers   | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work - Control of Substances Hazardous to Health (COSHH)  | Life Saving Rule   | Line of Fire  |
| <b>Tasks</b>   | <b>A: Hazard</b>  | <b>B: Initial Risk</b>  | <b>C: Controls</b>   | <b>D: Residual Risk</b>  |   |
| Separate the job into individual tasks and record in sequence. | <p>Hazard Description and Effect</p> <p>Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).</p> <p><b>Note:</b><br/>Additional hazards may be caused by interaction with other work.</p> | <p>Personnel at Risk</p> <p>Name all types of personnel at risk. Remember to include people outside the work party who may be affected.</p> | <p>Potential Severity</p> <p>From matrix, identify consequence with no controls in place for each hazard. (1-5)</p>  | <p>Likelihood of Occurrence</p> <p>From matrix, identify likelihood with no controls in place for each hazard. (A-E)</p> | <p>Risk Rating</p> <p>Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b></p>              |
|  |   |   | <p>Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br/> E= Elimination<br/> S=Substitution<br/> I = Isolation<br/> En=Engineering Controls<br/> A= Administration<br/> PPE= Personal Protective Equipment.<br/> All controls must be valid in that they reduce severity, likelihood or both.</p> | <p>Potential Severity</p> <p>From matrix, identify consequence with controls in place for each hazard. (1-5)</p>         | <p>Likelihood of Occurrence</p> <p>From matrix, identify likelihood with controls in place for each hazard. (A-E)</p> |
|  |   |   | 37. PPE as per PPE matrix available at the storage location (PPE).   |  |   |
| <b>Assessor's Name(s)</b>                                      |   |   |  |  |   |
| <i>Iris de Vos (Initial 2021)</i>                              |   |   |  |  |   |
| <i>Marino Buselic, Vijay Mundath (Review 2022)</i>             |   |   |  |  |   |
|  | <b>Reviewers Name(s)</b>  | <b>Date</b>   | <b>Location</b>  | <b>Time</b>  |   |
|  | <i>Muru Palaney, Tommaso Perelli (Initial 2021)</i>   | 1 September 2022  | FS   | 08:00  |   |
|  | <i>Tommaso Perelli, Muru Palaney (Review 2022)</i>  | FS  | Julia Korpak   | Rev. No  | 00  |
|  |   | <b>Approval</b>   | <b>Next Review date</b>  | <b>Date</b>  | 1 September 2022  |
|  |   |   | 31 August 2023   |  |   |





# Generic Risk Assessment

| Title/ Description   |   | Berthing / Unberthing, Deck Mooring Lines Handling  |  |   | GRA. No   |   | FS-01-IMS03-001-B-006  |
|--|---|---|--|---|---|---|--|
| Reference Source   | ICS Bridge procedures guide   | IMS Procedure   |  | FS-01-IMS14-001 Deck Procedure  | Life Saving Rule  |   | Line of Fire   |
| Tasks  | A: Hazard   | B: Initial Risk   |  | C: Controls   |   | D: Residual Risk  |  |
|  | Hazard Description and Effect   | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high</b> <b>medium</b> or <b>low</b>   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
| Berthing / Unberthing Mooring- Preparations                    | H- Misunderstanding procedures.<br>H – Communication barrier<br>H – Improper planning<br>H- Slips and Trips<br>H: Poor mental health of crew involved<br>H: Unfavorable work environment (stress, victimization, etc.)<br>H- Fatigue<br>E – Injury/illness of personnel<br>E – equipment damage | Personnel involved in the work  | 3  | C   | C3  | 2   | B  |
|  |   |   |  |   |   |   |  |
|  |   |   |  |   | 1. Mooring lines laid out to prevent entanglement and contact with obstructions (I)<br>2. Use certified and maintained equipment as per PMS (En)<br>3. Establish proper communications between forward, aft stations and bridge. If hand-held VHF are used, ensure backup batteries are charged and readily available. If applicable, other back up communications to be made ready (En)<br>4. Prime and test hydraulic lines and winches, especially in cold weather (En)<br>5. Emergency stops in good condition and tested (En). |   |  |



Generic Risk Assessment

| Title/ Description   |  |  |   | Berthing / Unberthing, Deck Mooring Lines Handling                                 |   | GRA. No  |  | FS-01-IMS03-001-B-006  |   |
|--|--|--|---|--|---|--|--|--|---|
| Reference Source   |  | ICS Bridge procedures guide  |   | IMS Procedure  |   | FS-01-IMS14-001 Deck Procedure   |  | Life Saving Rule   |   |
| Tasks  |  | A: Hazard  |   | B: Initial Risk  |   | C: Controls  |  | D: Residual Risk   |   |
|  |  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   |  |   |
| Separate the job into individual tasks and record in sequence. |  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> | Potential Severity   | Likelihood of Occurrence   | Risk Rating   |
|  |  |  |   |  |   |  | From matrix, identify consequence with controls in place for each hazard. (1-5)  | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard <b>(high, medium or low)</b> |
|  |  |  |   |  |   |  | 6. Toolbox meeting to instruct and discuss task steps and procedure requirements (A)<br>7. Form appropriate mooring teams with adequate combination of competencies and experience (A)<br>8. All members of mooring team to be fit for work(A)<br>9. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A)<br>10. All personnel involved to comply with cultural awareness and no harassment policy (A)<br>11. Plan work schedule and regular breaks, comply with work and rest hours (A)<br>12. Comply with speak up policy (A)<br>13. Inspect mooring station (A)<br>14. Inspect mooring ropes and equipment in good order and meet requirements (A) |  |   |

## Generic Risk Assessment

[illegible]

Generic Risk Assessment

| Berthing / Unberthing, Deck Mooring Lines Handling             |   |   |  |   | GRA. No  | FS-01-IMS03-001-B-006   |   |  |  |
|--|---|---|--|---|--|---|---|--|--|
| Title/ Description   | Reference Source  |   |  |   | Line of Fire   |   |   |  |  |
| Reference Source   | ICS Bridge procedures guide   |   | IMS Procedure  | FS-01-IMS14-001 Deck Procedure  | Life Saving Rule   |   |   |  |  |
| Tasks  | A: Hazard   | Personnel at Risk   | B: Initial Risk  |   | C: Controls  | D: Residual Risk  |   |  |  |
|  | Hazard Description and Effect   |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  |   |   |  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  |   |  |  |
|  |   |   |  |   |  |   |   |  |  |
|  |   |   |  |   |  |   |   |  |  |
| Berthing / Unberthing Mooring-Operations                       | H- Brake Failure<br>H- Hydraulic failure.<br>H- Pinch points<br>H- Slips, trips & falls<br>H- Unfamiliar crew<br>H- Damaged/ parting mooring line<br>E- Loose parts, body impact and injury.<br>E- Spills / oil pollution<br>E- Fatality<br>E-vessel equipment damage | Personnel involved in the work  | 4  | C   | C4   | drills as per drill matrix and planned jobs (A)<br>24. Emergency equipment is available and maintained as per PMS (A)<br><b>Control measures 1 to 20 as applicable.</b><br>25. Snap-back zones identified (I)<br>26. Rotational parts covered. (I)<br>27. Area out of limits to personnel not involved in operations. (I)<br>28. Stoppers in use to be of the same material as the lines. (En).<br>29. CCTV camera's with monitors on Bridge (if equipped). (En)<br>30. Check that mooring lines are appropriately tensioned (En)<br>31. Anti-slip painting on deck. (En)<br>32. Apply appropriate tension on mooring lines (En)<br>33. Use SLAM before starting the operations. (A).<br>34. Mooring lines paid out as per Master's orders (A). | Potential Severity<br>From matrix, identify consequence with controls in place for each hazard. (1-5) | Likelihood of Occurrence<br>From matrix, identify likelihood with controls in place for each hazard. (A-E) | Risk Rating<br>Classify risk rating from matrix for each hazard <b>(high, medium or low)</b> |
|  |   |   |  |   |  |   |   |  |  |

Generic Risk Assessment

| Berthing / Unberthing, Deck Mooring Lines Handling             |   |   |  |   |   | GRA. No  | FS-01-IMS03-001-B-006   |  |   |
|--|---|---|--|---|---|--|---|--|---|
| Title/ Description   | Reference Source  |   |  | Line of Fire  |   |  |   |  |   |
| Tasks  | ICS Bridge procedures guide   |   | IMS Procedure  | FS-01-IMS14-001 Deck Procedure  |   | Life Saving Rule   |   |  |   |
|  | A: Hazard   | Personnel at Risk   | B: Initial Risk  |   | C: Controls   | D: Residual Risk   |   |  |   |
| Reference Source   | Hazard Description and Effect   | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><br>Note:<br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high</b> , <b>medium</b> or <b>low</b> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high</b> , <b>medium</b> or <b>low</b> |
|  |   |   |  |   |   | 35. Handle mooring lines correctly without placing yourself or team members in danger (A).<br><br>36. Always maintain operational awareness and focus on the task (A).   |   |  |   |
| Securing of mooring station after berthing                     | H- Pinch points<br>H- Slips, trips & falls<br>H- Unfamiliar crew<br>H- Damaged/ parting mooring line<br><br>E- Loose parts, body impact and injury.<br>E- Fatality<br>E- Vessel equipment damage                      | Personnel involved in the work  | 4  | C   | C4  | 37. Rat guards in place for each mooring line (En)<br><br>38. Ensure winch breaks are fast and winch de-clutched (En)<br>39. Switch off all hydraulics after completion (En)<br>40. Proper housekeeping of mooring stations are carried out (A)<br>41. Anchor secured after arrival (A)<br><br>42. Switch off all hydraulics after completion (En)<br>43. Check that mooring lines are secured for sea voyage, (A)<br>44. Proper housekeeping of mooring stations are carried out (A)<br>45. Ensure anchor is secured for sea voyage (A) | 3   | B  | B3  |
| Securing of mooring station after unberthing                   | H- Pinch points<br>H- Slips, trips & falls<br>H- Unfamiliar crew<br><br>E- Injury.<br>E- Vessel equipment damage  | Personnel involved in the work  | 2  | C   | C2  |  | 2   | B  | B2  |

## Generic Risk Assessment

| Title/ Description   | Berthing / Unberthing, Deck Mooring Lines Handling   |   |  |   |   |   | GRA. No  | FS-01-IMS03-001-B-006  |
|--|--|---|--|---|---|---|--|--|
| Reference Source   | ICS Bridge procedures guide  |   | IMS Procedure  |   | FS-01-IMS14-001 Deck Procedure  |   | Life Saving Rule   |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   |   | D: Residual Risk   |  |
|  | Hazard Description and Effect  | Potential Severity  | Likelihood of Occurrence   | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |   |  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. ( <b>high</b> , <b>medium</b> or <b>low</b> )   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Risk Rating<br><br>Classify risk rating from matrix for each hazard. ( <b>high</b> , <b>medium</b> or <b>low</b> ) |
| Assessor's Name(s)   |  |   |  |   |   |   |  |  |
| Miguel Ganuza, Melvin Fernandes (Initial 2021)                 | Reviewers Name(s)  |   | Date   | 1 Sept 2022   | Time  | 08:00   |  |  |
| Marino Buselic, Vijay Mundath (Review 2022)                    | Muru Palaney, Tommaso Perelli (Initial 2021)<br>Tommaso Perelli, Muru Palaney (Review 2022)  |   | Location   | FS  | Rev. No   | 00  |  |  |
|  |  |   | Approval   | Julia Korpak  | Date  | 1 September 2022  |  |  |
|  |  |   | Next Review date   | 31 August 2023  |   |   |  |  |

# Generic Risk Assessment

| Power Tools - General Operations with Hand and Power Tools                        |   |   |  |   | GRA. No   | FS-01-IMS03-001-B-007   |
|---|---|---|--|---|---|---|
| Title/ Description  | Code of Safe Working Practices for Merchant Seafarers:<br>Chapter 18 – Provision, care and use of work equipment<br>Chapter 20 – Work on Machinery and Power systems  |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work   | Life Saving Rule  |
| Reference Source  | Line of Fire  |   |  |   |   |   |
| Tasks   | A: Hazard   | Personnel at Risk   | B: Initial Risk  |   | C: Controls   | D: Residual Risk  |
|   | Hazard Description and Effect   |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Potential Severity  |
|   |   |   |  |   |   |   |
| Separate the job into individual tasks and record in sequence.                    | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high</b> <b>medium</b> or <b>low</b> | From matrix, identify consequence with controls in place for each hazard. (1-5)           |
|   |   |   |  |   |   | From matrix, identify likelihood with controls in place for each hazard. (A-E)            |
|   |   |   |  |   |   | Classify risk rating from matrix for each hazard. <b>high</b> <b>medium</b> or <b>low</b> |
| General preparation and equipment selection for working with hand and power tools | H – use of defective equipment<br>H – unfamiliar with equipment<br>H – inappropriate equipment selected for job<br>H- inadequate housekeeping/storage of tool<br>H Poor mental health of crew involved<br>H: Unfavourable work environment (stress, victimization, etc.)<br>H – Fatigue | Personnel working with tools  | 3  | C   | C3  | 2   |
|   |   |   |  |   |   | B   |
|   |   |   |  |   |   | B2  |
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Generic Risk Assessment

| Power Tools - General Operations with Hand and Power Tools                 |  |   |  |   | GRA. No   | FS-01-IMS03-001-B-007   |
|--|--|---|--|---|---|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers:<br>Chapter 18 – Provision, care and use of work equipment<br>Chapter 20 – Work on Machinery and Power systems   |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work                                 | Life Saving Rule<br><br>Line of Fire  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   | D: Residual Risk  |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Potential Severity  |
| Separate the job into individual tasks and record in sequence.             | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5)   | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) | From matrix, identify consequence with controls in place for each hazard. (1-5) |
| E – equipment damage<br>E – inadequate work output<br>E – Injury / Illness |  |   |  |   |   |   |
|  |  |   |  |   |   |   |
|  |  |   | 5. Trailing electrical leads to be placed without presenting an obstacle/hazard to access routes. (En)<br>6. Use only fit for the purpose tools (En)<br>7. Tools suited for the environment, e.g. low voltage in confined spaces, intrinsically safe in explosive atmosphere (En)<br>8. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A)<br>9. All personnel involved to comply with cultural awareness and no harassment policy (A) |   |   |   |
|  |  |   |  |   |   |   |

Generic Risk Assessment

| Power Tools - General Operations with Hand and Power Tools     |  |   |  |   | GRA. No   | FS-01-IMS03-001-B-007  |   |  |   |
|--|--|---|--|---|---|--|---|--|---|
| Title/ Description   | Power Tools - General Operations with Hand and Power Tools   |   |  |   |   |  |   |  |   |
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers:<br>Chapter 18 – Provision, care and use of work equipment<br>Chapter 20 – Work on Machinery and Power systems   |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   |   | Line of Fire   |   |  |   |
|  |  |   |  |   |   | Life Saving Rule   |   |  |   |
| Tasks  | A: Hazard  | B: Initial Risk   |  |   | C: Controls   | D: Residual Risk   |   |  |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
|  |  |   |  |   |   | 10. Plan work schedule and regular breaks, comply with work and rest hours (A)<br>11. Comply with speak up policy (A)<br>12. Use only certified and maintained tools (A)<br>13. Use electrical tools tagged for PAT (A)<br>14. Follow procedure Hand and power tools and portable electronic devices (A)<br>15. Check on safety and good working order before use. Check expiry dates – if applicable (A)<br>16. Monthly safety inspection including hand and power tools (A)<br>17. Strictly follow the manufacturers' instructions (A) |   |  |   |

Generic Risk Assessment

| Power Tools - General Operations with Hand and Power Tools     |  |   |  |  | GRA. No   | FS-01-IMS03-001-B-007  |
|--|--|---|--|--|---|--|
| Title/ Description   | Power Tools - General Operations with Hand and Power Tools   |   |  |  |   |  |
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers:<br>Chapter 18 – Provision, care and use of work equipment<br>Chapter 20 – Work on Machinery and Power systems   | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  | Life Saving Rule   |   | Line of Fire   |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls  | D: Residual Risk  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence   | Risk Rating   |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)  | Classify risk rating from matrix for each hazard. (high, medium or low)         | Classify risk rating from matrix for each hazard. (high, medium or low)        |
|  |  |   |  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administrative<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |  |   |  | 18. Keep all safety devices and guards fully operational (A)<br>19. Always attach safety tools when working overhead (A)<br>20. 'Stop the Job' Policy (A)<br>21. Use SLAM before starting the job (A)<br>22. HSSE observation card (A)<br>23. Operator trained or familiar in the use of equipment. (A)<br>24. Toolbox talk, where required (A)<br>25. Tools and associated accessories inspected before use and on completion of work. (A)<br>26. If work is carried out with contractors provided tools, equipment assurance procedure to be followed (A)<br>27. Use appropriate PPE as per PPE Matrix (PPE) |   |  |

Generic Risk Assessment

| Power Tools - General Operations with Hand and Power Tools   |  |   |  |   |   | GRA. No   | FS-01-IMS03-001-B-007   |  |   |
|--|--|---|--|---|---|---|---|--|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers:<br>Chapter 18 – Provision, care and use of work equipment<br>Chapter 20 – Work on Machinery and Power systems   |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work                                 | Life Saving Rule  |   |  |   |
| Reference Source   |  |   |  |   | Line of Fire  |   |   |  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   |   | D: Residual Risk  |  |   |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence.   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
| Emergency preparedness for potential emergency situation (Equipment failure, Blackout, Fire, electrical shock, Injury, etc.) | H – Equipment failure<br>H – Damaged tools<br>H – Crew incompetent for task<br>E - Injury<br>E – Death<br>E – Damage to vessel<br>E – Damage to 3 <sup>rd</sup> party property<br>E – Fire<br>E – Blackout               | Operators, Personnel in the area  | 4  | C   | C4  | 28. Follow the appropriate emergency response checklist<br>Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)<br>29. Adhere to FS-01-IMS17-001<br>Emergency Response Manual (A)<br>30. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>31. Emergency equipment is available and maintained as per PMS (A)<br>32. Isolate work area to prevent noise or vibration exposure, as required (I)<br>33. Noise exposure levels to be monitored by site supervisors. (A)<br>34. Work share/rotation of task is recommended to reduce | 4   | A  | A4  |
| Preparation for working with portable power tools:<br>Noise and Vibration  | H - Noise<br>H - Vibration<br>E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration   | Operators, Personnel in the area  | 3  | C   | C3  |   | 2   | B  | B2  |

Generic Risk Assessment

| Power Tools - General Operations with Hand and Power Tools     |  |   |  |   | GRA. No   | FS-01-IMS03-001-B-007   |
|--|--|---|--|---|---|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers:<br>Chapter 18 – Provision, care and use of work equipment<br>Chapter 20 – Work on Machinery and Power systems   |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work                                 | Life Saving Rule  |
| Reference Source   |  |   |  |   |   | Line of Fire  |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   |   | D: Residual Risk  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   |   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |
|  | syndrome), white finger, etc.  |   |  |   |   | From matrix, identify consequence with controls in place for each hazard. (1-5)   |
|  |  |   |  |   |   | From matrix, identify likelihood with controls in place for each hazard. (A-E)  |
|  |  |   |  |   |   | Classify risk rating from matrix for each hazard. (high, medium or low)   |
| Work with hand and power tools that have rotating              | H – Tools with inadequate guarding/entanglement  | Personnel working with tools  | 4  | C   | C4  | Control measures 1 to 27 as applicable  |
|  |  |   |  |   |   | 3   |
|  |  |   |  |   |   | B   |
|  |  |   |  |   |   | B3  |

Generic Risk Assessment

| Power Tools - General Operations with Hand and Power Tools         |  |   |  |   | GRA. No  | FS-01-IMS03-001-B-007  |
|--|--|---|--|---|--|--|
| Title/ Description   | Power Tools - General Operations with Hand and Power Tools   |   |  |   |  |  |
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers:<br>Chapter 18 – Provision, care and use of work equipment<br>Chapter 20 – Work on Machinery and Power systems   | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  | Life Saving Rule  |  | Line of Fire   |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   | D: Residual Risk   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Risk Rating  |
| Separate the job into individual tasks and record in sequence.     | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b>   | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |
| and / or moving parts  | with rotating or moving parts of tool<br>H – Incorrect use or selection of tools or attachments<br><br>E – Injuries; Bruising, Cuts, abrasions, Fracture, Amputation   |   |  |   | 40. Remove all loose clothing to prevent entanglement (E)<br>41. Remove all accessories that could get entangled (E)   |  |
| Work with portable pneumatic, hydraulic, and electric power tools. | H – Forces (electricity, pressure, mechanical, etc.)<br>H- Electrical Shock<br><br>E – Injuries; Burns; Muscle pain; Electric shock; Fatality.   | Personnel in the area   | 4  | C   | C4   | B3   |
|  |  |   |  |   | Control measures 1 to 27 as applicable<br>42. Whip-checks to use (E)<br>43. All tools for outside work are 110 V rated. (En)<br>44. All tools and extension leads to be clearly identified with the correct colour code tag (annual inspection / PAT). (A) |  |

Generic Risk Assessment

| Title/ Description                          |   | Power Tools - General Operations with Hand and Power Tools |   |   |   | GRA. No          | FS-01-IMS03-001-B-007  |  |
|---|---|--|---|---|---|------------------|--|--|
| Reference Source                            | Code of Safe Working Practices for Merchant Seafarers:<br>Chapter 18 – Provision, care and use of work equipment<br>Chapter 20 – Work on Machinery and Power systems  |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work |   | Life Saving Rule | Line of Fire   |  |
| Tasks                                       | <b>A: Hazard</b><br>Hazard Description and Effect<br>Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. |  | <b>B: Initial Risk</b><br>Potential Severity<br>From matrix, identify consequence with no controls in place for each hazard. (1-5)<br>Likelihood of Occurrence<br>From matrix, identify likelihood with no controls in place for each hazard. (A-E) |   | <b>C: Controls</b><br>Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |                  | <b>D: Residual Risk</b><br>Potential Severity<br>From matrix, identify consequence with controls in place for each hazard. (1-5)<br>Likelihood of Occurrence<br>From matrix, identify likelihood with controls in place for each hazard. (A-E) | Risk Rating<br>Classify risk rating from matrix for each hazard. (high, medium or low) |
| Assessor's Name(s)                          | Reviewers Name(s)   |  | Date  | 1 September 2022                        |   | Time             | 08:00  |  |
| Tommaso Perelli (Initial 2021)              | Muru Palaney (Initial 2021)   |  | Location  | FS                                      |   | Rev. No          | 01   |  |
| Marino Buselic, Vijay Mundath (Review 2022) | Tommaso Perelli, Muru Palaney (Review 2022)   |  | Approval  | Julia Korpak                            |   | Date             | 1 September 2022   |  |
|   |   |  | Next Review date  | 31 August 2023                          |   |                  |  |  |





# Generic Risk Assessment

| Title/ Description   |  | Hot Works, Welding / Burning / Oxygen Cutting   |  |   | GRA. No   |  | FS-01-IMS03-001-B-008   |
|--|--|---|--|---|---|--|---|
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  |   | Life Saving Rule  |  | Hot Work  |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   |   | D: Residual Risk   |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administrative<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                     | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |  | Classify risk rating from matrix for each hazard. (high, medium or low)                                     |
| Hot Work – Preparation for work                                | H: Inadequate job preparation.<br>H: Unaware of the hazards and controls.<br>H: Poor mental health of crew involved<br>H: Unfavourable work environment (stress, victimization, etc.)<br>H: Fatigue<br><br>E: Unidentified hazards and risks | All persons on board  | 1  | C   | C1  | 1. Cold weather, moisture trapped may freeze. Do not thaw equipment with naked flames (E)<br>2. Assess if hot work can take place in designated space for such work (such as Engine Room Workshop) (I)<br>3. Inform all persons involved in the work and assign tasks via toolbox meeting (A)<br>4. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A)<br>5. All personnel involved to comply with cultural awareness and no harassment policy (A) | From matrix, identify consequence with controls in place for each hazard. (1-5)<br><br>1<br><br>B<br><br>B1 |

## Generic Risk Assessment

| Hot Works, Welding / Burning / Oxygen Cutting                  |  |   |  | GRA. No   | FS-01-IMS03-001-B-008   |   |   |  |   |
|--|--|---|--|---|---|---|---|--|---|
| Title/ Description   | Reference Source   | Code of Safe Working Practices for Merchant Seafarers   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   | Life Saving Rule  | Hot Work  |   |  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   | D: Residual Risk  |   |  |   |
|  | Hazard Description and Effect  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. |   | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
|  |  |   |  |   |   | 6. Plan work schedule and regular breaks, comply with work and rest hours (A)<br>7. Comply with speak up policy (A)<br>8. Follow and adhere to Hot work procedure (A)<br>9. Supervision required (A)<br>10. Follow and adhere to Permit to work procedure (A)<br>11. Adhere to Life Saving Rule no.5 Hot work (A)<br>12. Acquire permission port authorities, if applicable (A)<br>13. Obtain additional PTW if the task is to be performed, amongst others, in confined space, at height, over the side, LOTO, Isolation etc. (A)<br>14. Monitor weather and ship movement (A)<br>15. Protect yourself against heat exhaustion (A)<br>16. Be aware of SIMOPS (A) |   |  |   |

| Hot Works, Welding / Burning / Oxygen Cutting                  |  |   |  |   |  | GRA. No   | FS-01-IMS03-001-B-008   |  |   |
|--|--|---|--|---|--|---|---|--|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  |   | Life Saving Rule  | Hot Work   |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |   | D: Residual Risk  |  |   |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard <b>(high, medium or low)</b> |
|  |  |   |  |   |  | 17. 'Stop the Job' known to everybody involved (A)<br>18. Use SLAM before starting with actual work (A)   |   |  |   |
| Hot Work--<br>Equipment selection                              | H: Equipment<br><br>E: Poor quality standards of equipment used  | All persons on board  | 4  | C   | C4   | 19. Properly store all cylinders, acetylene and oxygen to be segregated – upright, with protective caps, away from heat, sparks and flames (I)<br>20. Use PAT tested equipment, maintained as per manufacturer's instructions, PMS and suitable for marine environment (En)<br>21. Use only properly certified and maintained equipment for the task including gas detection equipment (En)<br>22. Protect equipment form potential mechanical damages during storage and operations – sharp edges, corners, heavy objects, etc (En)<br>23. | 3   | B  | B3  |

| Hot Works, Welding / Burning / Oxygen Cutting                  |  |   |  | GRA. No  |   | FS-01-IMS03-001-B-008   |  |
|--|--|---|--|--|---|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  | Life Saving Rule   |   | Hot Work  |  |
| Reference Source   | IMS Procedure  |   |  | FS-01-IMS03-001 Health & Safety at Work  |   |   |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  | C: Controls  | D: Residual Risk  | Risk Rating   |  |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence   | Risk Rating   | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)  | Classify risk rating from matrix for each hazard. (high, medium or low) | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
| Hot Work - Competence  | H: Inadequate operation standards.<br>E: Harm to body<br>E: Fire   | Operators   | 4  | C  | C4  | 4   | B  |
| Hot Work – PPE   | H: Inadequate selection of PPE.<br>H: Inadequate use of PPE<br>E: Harm to body   | Operators   | 3  | D  | D3  | 2   | B  |
|  |  |   |  | 24. Determine level of supervision required based on competence and experience (A)<br>25. The operator is familiar with the equipment (A)<br>26. Only competent, trained, personnel to operate equipment (A)<br>27. Avoid loose items (getting caught) (A)<br>28. Select PPE according to PPE manual and matrix (A)<br>29. Prevent wearing clothes made of synthetic fibers under overalls where a risk of ignition is likely (A)<br>30. Select correct eye protection protecting eyes from flying particles and from UV and heat radiation (PPE)<br>31. PPE should be free of grease and oil and other flammable substances (PPE) |   |   |  |

| Hot Works, Welding / Burning / Oxygen Cutting                  |  |   |  |   |  | GRA. No   | FS-01-IMS03-001-B-008  |  |
|--|--|---|--|---|--|---|--|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  |   | Life Saving Rule   | Hot Work   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |   | D: Residual Risk   |  |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   |  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | Potential Severity  | Likelihood of Occurrence   | Risk Rating  |
|  |  |   |  |   |  | From matrix, identify consequence with controls in place for each hazard. (1-5)   | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |
|  |  |   |  |   |  | 32. PPE shall be in good condition, shall fit and the user shall be familiar with its use (PPE)<br>33. Wet coveralls should be dried prior to re-use to prevent possible electrocution (PPE)  |  |  |
| Hot Work – Area preparation                                    | H: Flammable / combustible materials in work area and surrounding areas<br>H: Loose flammable equipment<br>H: Inadequate housekeeping<br>E: Fire/ Explosion  | All persons in area   | 5  | C   | C5   | 34. Isolation (LOTO) of systems, including fire detection system, as necessary (I)<br>35. Work area to be swabbed and tested for Cr(VI) prior to starting. If positive, refer to Hexavalent Chromium-6 Cr (VI) GRA (En)<br>36. Clear / clean the surrounding areas from combustible materials and / or provide sufficient fire barriers (En)<br>37. Provide adequate illumination (En)<br>38. Provide sufficient ventilation (En)<br>39. If Hot Work is performed on stainless steel or chromed steel alloys, assume that Cr(VI) will | 3  | B  |
|  |  |   |  |   |  |   |  | B3   |

## Generic Risk Assessment

| Hot Works, Welding / Burning / Oxygen Cutting   |  |                        |                    |                          |   | GRA. No  | FS-01-IMS03-001-B-008   |  |
|---|--|------------------------|--------------------|--------------------------|---|--|---|--|
| Title/ Description  | Code of Safe Working Practices for Merchant Seafarers  |                        |                    | IMS Procedure            | FS-01-IMS03-001 Health & Safety at Work | Life Saving Rule   | Hot Work  |  |
| Tasks   | A: Hazard  | Personnel at Risk      | Potential Severity | Likelihood of Occurrence | Risk Rating                             | C: Controls  | D: Residual Risk  |  |
|   | Hazard Description and Effect  | Personnel at Risk      | Potential Severity | Likelihood of Occurrence | Risk Rating                             | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.                    | Potential Severity<br>From matrix, identify consequence with controls in place for each hazard. (1-5)<br><br>Likelihood of Occurrence<br>From matrix, identify likelihood with controls in place for each hazard. (A-E) | Risk Rating<br>Classify risk rating from matrix for each hazard.<br><b>(high, medium or low)</b><br><br>Risk Rating<br>Classify risk rating from matrix for each hazard.<br><b>(high, medium or low)</b> |
|   |  |                        |                    |                          |   | develop as chemical reaction, and refer to Hexavalent Chromium-6 Cr(VI) GRA (A)<br><br>40. Restrict access (A)<br>41. Inspect the working area and the surrounding areas. To be done by a competent person(s) only. Do gas-free test where necessary (A)   |   |  |
| Emergency preparedness for potential emergency situation (Equipment failure, Fire, electrical, shock, Injury, etc.) | H – Area of work not prepared for hot work<br>H- Flammable materials and ignition sources<br>H – Lack of information’s<br>E – Fire<br>E – Explosion<br>E – Death<br>E – Injury<br>E – Damage to vessel<br>E – Damage to 3 <sup>rd</sup> party property | All personnel on board | 5                  | C                        | C5                                      | 42. Prepare firefighting equipment in the area (En)<br>43. For timber decks: keep the deck covered with water or other fire protection (En)<br>44. Provide competent fire watch with reliable communication line(s). Consider the use of VHF/UHF radios (En)<br>45. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A) | 5<br><br>A  | A5   |

| Hot Works, Welding / Burning / Oxygen Cutting                  |  |   |  |   | GRA. No  |   | FS-01-IMS03-001-B-008   |  |
|--|--|---|--|---|--|---|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  |   | FS-01-IMS03-001 Health & Safety at Work  |   | Life Saving Rule  |  |
| Reference Source   | IMS Procedure  |   |  |   | FS-01-IMS03-001 Health & Safety at Work  |   | Hot Work  |  |
| Tasks  | A: Hazard  |   | B: Initial Risk  |   | C: Controls  |   | D: Residual Risk  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>(high medium or low)</b> |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |  |   |  |   |  | 46. Adhere to FS-01-IMS17-001 Emergency Response Manual (A)<br>47. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>48. Emergency equipment is available and maintained as per PMS (A)<br>49. Monitor the working area and surrounding areas (A)<br>50. Periodically re-test for vapours during the work (A)<br>51. Keep Oxygen cylinders away from oils, greases and flammable gases and with permanent and prominent "No smoking" signs (I)<br>52. Use guards as required in line with manufacturer instructions, and check emergency button where fitted (En)<br>53. Use the equipment properly. Attach regulators only to the correct cylinders for which they |   |  |
| Execution of Hot Work operations                               | H: Equipment (gas cylinders, electric arc welding equipment)<br>E: Explosion, fire,<br>E: Harm to body   | Operators   | 4  | D   | D4   |   | 4   | B  |
|  |  |   |  |   |  |   |   | B4   |



| Hot Works, Welding / Burning / Oxygen Cutting                  |  |   |  | FS-01-IMS03-001 Health & Safety at Work   |  | GRA. No   | FS-01-IMS03-001-B-008  |
|--|--|---|--|---|--|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  | IMS Procedure   |  | Life Saving Rule  |  |
| Reference Source   |  |   |  |   |  | Hot Work  |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  | D: Residual Risk  |  |
|  | Hazard Description and Effect  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Risk Rating  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. |   | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |   | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |
|  |  |   |  |   |  | are designed. Strictly follow the equipment manufacturer's instructions. (En)<br>54. Handle all gas cylinders with care – do not hit, drop, expose to forces (En)<br>55. Thoroughly visually inspect / test the equipment before use (A)<br>56. Use only the proper materials (e.g. welding rods, etc.) fit for purpose to perform the task at hand (A)<br>57. Test equipment prior to use and use only calibrated unit for testing presence of flammable vapours by competent person (A)<br>58. Are alternative work methods available? (S)<br>59. Use of Hand arm vibration calculator or tool specifications to establish safe working period (I)<br>60. Select appropriate tools and calculate limits to exposure (A) |  |
| Hot work – Tool handling                                       | H: Vibration<br>E: HAVS (Hand Arm Vibration Syndrome)  | Operators   | 3  | D   | C3   | 2   | B2   |

| Hot Works, Welding / Burning / Oxygen Cutting                  |  |   |  | GRA. No   |  | FS-01-IMS03-001-B-008   |  |
|--|--|---|--|---|--|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  | IMS Procedure   |  | FS-01-IMS03-001 Health & Safety at Work   |  |
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers  |   |  | IMS Procedure   |  | Life Saving Rule  |  |
| Tasks  | A: Hazard  |   | Personnel at Risk  | B: Initial Risk   |  | C: Controls   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | From matrix, identify consequence with controls in place for each hazard. (1-5)   | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |  |   |  |   |  |   |  |
|  |  |   |  |   |  |   |  |
| Hot work on vessel structure                                   | H: Amendments to vessel structure<br><br>E: Structural damages   | Personnel in the working area, crew   | 3  | C   | C3   | 3   | B  |
|  |  |   |  |   |  |   |  |
| Electric welding - general                                     | H: Direct current<br><br>E: Electrocutation  | Personnel in the working area, crew   | 4  | C   | C4   | 4   | B  |

Generic Risk Assessment

| Hot Works, Welding / Burning / Oxygen Cutting                  |  |   |  | FS-01-IMS03-001 Health & Safety at Work   |  | GRA. No   | FS-01-IMS03-001-B-008  |
|--|--|---|--|---|--|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  | Life Saving Rule  |  |   | Hot Work   |
| Reference Source   | IMS Procedure  |   |  | Safety at Work  |  |   |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  | C: Controls   | D: Residual Risk   |   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |  |   |  |   |  |   |  |
| Completion of Hot work   | H – Hot surfaces<br>H – Poor housekeeping<br>E – Re-ignition of fire<br>E – Slips and trips<br>E – Injury  | Personnel in the working area, crew   | 4  | C   | C4   | 3   | A  |
|  |  |   |  |   |  |   |  |
| Assessor's Name(s)   | Reviewers Name(s)  |   |  | Date  | Time   |   |  |
| Tommaso Perelli (Initial 2021)                                 | Muru Palaney (Initial 2021)  |   |  | 1 September 2022  | 08:00  |   |  |
| Marino Buselic, Vijay Mundath (Review 2022)                    | Tommaso Perelli, Muru Palaney (Review 2022)  |   |  | FS  | 01   |   |  |
|  | Next Review date   |   |  | Julia Korpak  | 1 September 2022   |   |  |
|  |  |   |  | 31 August 2023  |  |   |  |

# Generic Risk Assessment

| Power Tools- Grinding / Use of Abrasive Wheels                 |  |   |  | GRA. No   |  | FS-01-IMS03-001-B-009   |  |  |
|--|--|---|--|---|--|---|--|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   |  | Life Saving Rule  |  |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |   | D: Residual Risk   |  |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administrative<br><br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <div>highmediumorlow</div> | From matrix, identify consequence with controls in place for each hazard. (1-5)   | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <div>highmediumorlow</div> |
| Grinding – Preparation for work                                | H: Inadequate job preparation.   |   |  |   | C2   | 1. Assess if grinding cannot take place in designated space (such as Engine Room Workshop) (I)  |  |  |
|  | H: Unaware of the hazards and controls.  |   |  |   |  | 2. Inform all persons involved in the work and assign tasks via toolbox meeting (A)   |  |  |
|  | H: Poor mental health of crew involved   |   |  |   |  | 3. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A)   |  |  |
|  | H: Unfavourable work environment (stress, victimization, etc.)   | All persons on board, Operators   | 2  | C   |  | 4. Determine level of supervision required based on competence and experience of the operator (A)   |  |  |
|  | H: Fatigue<br>H: Inexperienced operator  |   |  |   |  | 5. All personnel involved to comply with cultural awareness and no harassment policy (A)  |  |  |
|  | E: Unidentified hazards and risks<br>E: Injuries   |   |  |   |  | B1  |  |  |

Generic Risk Assessment

| Power Tools- Grinding / Use of Abrasive Wheels                 |  |   |  | GRA. No   |  | FS-01-IMS03-001-B-009   |  |
|--|--|---|--|---|--|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  | IMS Procedure   |  | FS-01-IMS03-001 Health & Safety at Work   |  |
| Reference Source   | Life Saving Rule   |   |  | Line of Fire  |  |   |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  | C: Controls   | D: Residual Risk   |   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>(high medium or low)</b>   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E)   |
|  |  |   |  |   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  |   | Classify risk rating from matrix for each hazard.<br><b>(high medium or low)</b> |
|  |  |   |  |   | 6. Plan work schedule and regular breaks, comply with work and rest hours (A)<br>7. Comply with speak up policy (A)<br>8. Follow and adhere to hand and power tools procedure (A)<br>9. Consider if the work should be done under Hot Work PTW (A)<br>10. Obtain additional PTW if the task is to be performed, amongst others, in confined space, at height, over the side, LOTO, Isolation etc. (A)<br>11. Monitor weather and ship movement (A)<br>12. Be aware of SIMOPS (A)<br>13. 'Stop the Job' known to everybody involved (A)<br>14. Use SLAM before starting with actual work (A)<br>15. Prepare firefighting equipment in the area (En) |   |  |
| Emergency preparedness for potential                           | H – Crew incompetent for task  | All persons on board  | 4  | C   | C4   | 4   | A  |
|  |  |   |  |   |  |   | A4   |

| Power Tools- Grinding / Use of Abrasive Wheels   |   |   |  |   | GRA. No  | FS-01-IMS03-001-B-009  |  |   |
|--|---|---|--|---|--|--|--|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers   |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  |  | Life Saving Rule   | Line of Fire  |
| Tasks  | A: Hazard   | Personnel at Risk   | B: Initial Risk  |   | C: Controls  | D: Residual Risk   |  |   |
|  | Hazard Description and Effect   | Risk Rating   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   |  |   |
| Separate the job into individual tasks and record in sequence.                             | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                                      | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | From matrix, identify consequence with controls in place for each hazard. (1-5)  | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard <b>(high, medium or low)</b> |
| emergency situation<br>(Equipment failure, Blackout, Fire, electrical shock, Injury, etc.) | H: Flammable materials and ignition sources<br><br>E - Injury<br>E – Death<br>E – Damage to vessel<br>E – Damage to 3rd party property<br>E – Fire<br>E: Explosion, fire, release of forces (compressed gasses, under pressure liquids, etc.)<br>E – Blackout |   |  |   |  | 16. For timber decks: keep the deck covered with water or other fire protection (En)<br><br>17. Provide competent fire watch with reliable communication line(s).<br>Consider the use of VHF/UHF radios (En)<br><br>18. Follow the appropriate emergency response checklist<br>Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)<br><br>19. Adhere to FS-01-IMS17-001<br>Emergency Response Manual (A)<br><br>20. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br><br>21. Emergency equipment is available and maintained as per PMS (A)<br><br>22. Monitor the working area and surrounding areas (A) |  |   |

## Generic Risk Assessment

| Power Tools- Grinding / Use of Abrasive Wheels                 |   |   |  | GRA. No  | FS-01-IMS03-001-B-009   |
|--|---|---|--|--|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers   | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  | Life Saving Rule   | Line of Fire  |
| Tasks  | A: Hazard   | Personnel at Risk   | B: Initial Risk  | C: Controls  | D: Residual Risk  |
|  | Hazard Description and Effect   |   | Potential Severity   | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)  | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b>  |
|  |   |   |  |  |   |
| Grinding Equipment selection                                   | H: Equipment<br>H - Noise<br>H: Use of Equipment<br>H: Vibration<br><br>E: Explosion, fire,<br>E: Harm to body<br>E: Poor quality standards of equipment used<br>E – Occupational health injuries, such as Induced hearing loss; Tinnitus; HAVS (Hand arm vibration syndrome), white finger, etc. | All persons on board  | 1  | C  | C1  |
|  |   |   |  |  |   |
|  |   |   |  |  |   |
|  |   |   |  |  |   |
|  |   |   |  |  |   |
|  |   |   |  | 23. Periodically re-test for vapours during the work (A)<br>24. Use of Hand arm vibration calculator or tool specifications to establish safe working period (I)<br>25. Use equipment only if PAT tested (En)<br>26. Equipment selected shall be provided with guards as required in line with manufacturer instructions, and check emergency button where fitted (En)<br>27. Select the lowest vibration tool suitable for the job (En)<br>28. Grinding wheel suitable for equipment and within expiry date (En)<br>29. Protect equipment form potential mechanical damages during storage and operations – sharp edges, corners, heavy objects, etc (En) | Potential Severity<br>From matrix, identify consequence with controls in place for each hazard. (1-5)<br><br>Likelihood of Occurrence<br>From matrix, identify likelihood with controls in place for each hazard. (A-E)<br><br>Risk Rating<br>Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b><br><br>Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |
|  |   |   |  |  |   |
|  |   |   |  |  |   |
|  |   |   |  |  |   |
|  |   |   |  |  |   |



Generic Risk Assessment

| Power Tools- Grinding / Use of Abrasive Wheels                 |  |   |  | FS-01-IMS03-001 Health & Safety at Work   |  | GRA. No   | FS-01-IMS03-001-B-009  |
|--|--|---|--|---|--|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  | IMS Procedure   |  | Life Saving Rule  |  |
| Reference Source   | A: Hazard  |   |  | B: Initial Risk   |  | C: Controls   |  |
| Tasks  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high medium or low)</b>  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |  |   |  |   | Classify risk rating from matrix for each hazard. <b>(high medium or low)</b>  |   |  |
|  |  |   |  |   | 30. Thoroughly visually inspect / test the equipment before use (A)<br>31. Be aware of HAVS symptoms to allow early detection. Discuss hazard and safe working period in toolbox (A)<br>32. Work share/rotation of task is recommended to reduce individual exposure to noise (and vibration). (A)<br>33. Use only properly certified and maintained equipment as per manufacturer's instructions, PMS and suitable for marine environment and for the task (A)<br>34. Avoid loose items (getting caught) (A)<br>35. Select PPE according to PPE manual and matrix (PPE)<br>36. Prevent wearing clothes made of synthetic fibers under overalls where a risk of ignition is likely (PPE) |   |  |
| Grinding – PPE   | H: Inadequate selection of PPE.<br>H: Inadequate use of PPE<br>E: Harm to body   | Operators   | 3  | C   | C3   | 2   | B2   |

## Generic Risk Assessment

| Power Tools- Grinding / Use of Abrasive Wheels                 |  |   |  |   | GRA. No  | FS-01-IMS03-001-B-009   |  |
|--|--|---|--|---|--|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   |  | Life Saving Rule  |  |
| Reference Source   | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  | D: Residual Risk  |  |
| Tasks  | Hazard Description and Effect  | Potential Severity  | Likelihood of Occurrence   | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><br>Note:<br>Additional hazards may be caused by interaction with other work.          | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br>(high, medium or low)   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |  |   |  |   | 37. PPE shall be in good condition, shall fit and the user shall be familiar with its use (PPE)<br>38. PPE should be free of grease and oil and other flammable substances (PPE)   |   |  |
|  |  |   |  |   | 39. Isolate work area to prevent noise or vibration exposure, as required (I)<br>40. Clear / clean the surrounding areas from combustible materials (I)<br>41. Provide sufficient fire barriers around combustible material that cannot be moved away (I)<br>42. Restrict access (I)<br>43. Isolation (LOTO) of systems, including fire detection system, as necessary (I)<br>44. Work area to be swabbed and tested for Cr(VI) prior to starting. If positive, refer to Hexavalent Chromium-6 Cr(VI) GRA (En) | 3   | B  |
| Grinding – Area preparation                                    | H: Flammable / combustible materials in work area and surrounding areas<br>H: Loose flammable equipment<br>H: Inadequate housekeeping<br>H: Inadequate guards or barriers<br><br>E: Fire/ Explosion from sparks<br>E: Injuries | All persons in area   | 5  | C   | C5   |   | B3   |

Generic Risk Assessment

| Power Tools- Grinding / Use of Abrasive Wheels                 |  |   |  | FS-01-IMS03-001 Health & Safety at Work   |  | GRA. No   | FS-01-IMS03-001-B-009   |  |   |
|--|--|---|--|---|--|---|---|--|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   | IMS Procedure  | Life Saving Rule  |  |   | Line of Fire  |  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |   | D: Residual Risk  |  |   |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br><br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.     | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard <b>(high, medium or low)</b> |
|  |  |   |  |   |  | 45. Provide sufficient ventilation (En)<br>46. Provide adequate illumination (En)<br>47. Ensure area is cordoned off and guards in place to prevent accidental falls (En)<br>48. Inspect the working area and the surrounding areas. To be done by a competent person(s) only. Do a gas-free test where necessary (A)   |   |  |   |
| Grinding Operations  | H: Use of Equipment<br>H: Vibration, Noise<br><br>E: Explosion, fire,<br>E: Harm to body<br>E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration syndrome), white finger, etc. | All persons on board  | 4  | C   | C4   | <b>Control measures 1 to 48, as applicable</b><br>49. Use guards as required in line with manufacturer instructions, and check emergency button where fitted (En)<br>50. Maximum trigger times of tools to be complied with in line with Noise and Vibration procedure. (A)<br>51. Noise exposure levels to be monitored by site supervisors. (A)                         | 3   | B  | B3  |

Generic Risk Assessment

| Power Tools- Grinding / Use of Abrasive Wheels                 |  |   |  | GRA. No   |  | FS-01-IMS03-001-B-009   |                |                  |  |
|--|--|---|--|---|--|---|----------------|------------------|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers  |   |  | IMS Procedure   |  | FS-01-IMS03-001 Health & Safety at Work   |                |                  |  |
| Reference Source   | Line of Fire   |   |  | Life Saving Rule  |  |   |                |                  |  |
| Tasks  | A: Hazard  |   |  | B: Initial Risk   |  | C: Controls   |                | D: Residual Risk |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |                |                  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <div>high</div> <div>medium</div> <div>low</div> | Likelihood of Occurrence<br>From matrix, identify likelihood with controls in place for each hazard. (A-E)<br><br>Potential Severity<br>From matrix, identify consequence with controls in place for each hazard. (1-5)<br><br>Risk Rating<br>Classify risk rating from matrix for each hazard. <div>high</div> <div>medium</div> <div>low</div>                  |                |                  |  |
| Completion of work   |  |   |  |   |  | 52. Planning of tasks including suitable breaks from noise/vibration exposure (A)   |                |                  |  |
|  |  |   |  |   |  | 53. Secure workplace, all equipment used back to their storage location (E)   |                |                  |  |
|  |  |   |  |   |  | 54. Do not leave hot surfaces unattended after grinding is completed (I)  |                |                  |  |
|  |  |   |  |   |  | 55. Proper close out of PTW, where applicable (A)   |                |                  |  |
|  | H – Hot surfaces<br>H – Poor housekeeping<br>E – Slips and trips<br>E – Injury   | Personnel in the working area, crew   | 3  | C   | C3   | 2<br><br>A<br><br>A2  |                |                  |  |
| Assessor's Name(s)   | Reviewers Name(s)  |   |  | Date  | 1 September 2022   | Time  | 08:00          |                  |  |
| Tommaso Perelli (Initial 2021)                                 | Muru Palaney (Initial 2021)  |   |  | Location  | FS   | Rev. No   | 01             | 1 September 2022 |  |
| Marino Buselic, Vijay Mundath (Review 2022)                    | Tommaso Perelli, Muru Palaney (Review 2022)  |   |  | Approval  | Julia Korpak   | Date  | 31 August 2023 |                  |  |
|  |  |   |  | Next Review date  | 31 August 2023   |   |                |                  |  |

# Generic Risk Assessment

| Title/ Description   |  | Manual Handling   |  | GRA. No   |  | FS-01-IMS03-001-B-010   |   |  |
|--|--|---|--|---|--|---|---|--|
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers OVMISA Chapter 10 – Manual Handling  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  | Life Saving Rule  |  | Line of Fire  |   |  |
| Tasks  | A: Hazard  | B: Initial Risk   | C: Controls  | D: Residual Risk  |  |   |   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Risk Rating   |   |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                                 | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low)  | Classify risk rating from matrix for each hazard. (high, medium or low) |   |  |
| Manual handling - general                                      | H – Weight, size, shape of objects<br>H – Sharp edges, protruding nails or splinters<br>H – Greasy surfaces<br>Hi: Poor mental health of crew involved<br>Hi: Unfavourable work environment (stress, victimization, etc.)<br>Hi: Fatigue<br>E – Injuries | Personnel involved in the work  | 3  | C   | C3   | B2  |   |  |
|  |  |   |  |   | 1. Avoid manual handling at any time when possible (E)<br>2. Consider use of mechanical aids, to eliminate or reduce manual handling (S)<br>3. Consider teamwork or load sharing by multiple people (S)<br>4. Lighten or break up the load into smaller loads, if possible (En)<br>5. In case of any size and shape making it unable to be carried easily, and use of mechanical aids is not possible, consider dismantling, or arranging the area for mechanical means of lifting, or other means as possible. In such cases the risk need to be specifically assessed (En) | 2   | B |  |

Generic Risk Assessment

| Manual Handling  |  |   |  | GRA. No   |   | FS-01-IMS03-001-B-010   |
|--|--|---|--|---|---|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers OVMISA Chapter 10 – Manual Handling  |   |  | Life Saving Rule  |   | Line of Fire  |
| Reference Source   | IMS Procedure  |   |  | FS-01-IMS03-001 Health & Safety at Work   |   |   |
| Tasks  | A: Hazard  | B: Initial Risk   | C: Controls  | D: Residual Risk  |   |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high</b> , <b>medium</b> or <b>low</b>   | Classify risk rating from matrix for each hazard. <b>high</b> , <b>medium</b> or <b>low</b> |
|  |  |   |  |   | <p>Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows</p> <p>E= Elimination<br/>S=Substitution<br/>I = Isolation<br/>En=Engineering Controls<br/>A= Administration<br/>PPE=Personal Protective Equipment.<br/>All controls must be valid in that they reduce severity, likelihood or both.</p> <p>6. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A)</p> <p>7. All personnel involved to comply with cultural awareness and no harassment policy (A)</p> <p>8. Plan work schedule and regular breaks, comply with work and rest hours (A)</p> <p>9. Comply with speak up policy (A)</p> <p>10. Strictly follow Manual handling Procedure (A)</p> <p>11. Consider weight and physical ability of the person to manage the load, in any case limit the weight of load to 23 kg or 50 pounds (A)</p> <p>12. Manual handling training (A)</p> |   |

Generic Risk Assessment

| Title/ Description   |   | Manual Handling  |   | IMS Procedure  |   | FS-01-IMS03-001 Health & Safety at Work   |  | Life Saving Rule  |  | GRA. No   | FS-01-IMS03-001-B-010 |
|--|---|--|---|--|---|---|--|---|--|---|-----------------------|
| Reference Source   |   | Code of Safe Working Practices for Merchant Seafarers OVMSA Chapter 10 – Manual Handling   |   |  |   |   |  |   |  | Line of Fire  |                       |
| Tasks  |   | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   |  | D: Residual Risk  |  |   |                       |
|  |   | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.               | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |                       |
| Separate the job into individual tasks and record in sequence. |   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>high</b><br><b>medium</b> or <b>low</b> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>high</b><br><b>medium</b> or <b>low</b> |                       |
|  | H – Adverse Weather conditions<br>E – Injuries          |  | Personnel involved in the work  | 3  | C   | C3  | 13. Consider weather conditions and movement of the vessel (A)<br>14. Consider route to undertake with the load (A)  | 3   | B  | B3  |                       |
|  | H – Inadequate Working area<br>E – Injuries             |  | Personnel involved in the work  | 3  | C   | C3  | 15. Consider and remove or manage the characteristics of the working area like (I)<br>a. floor<br>b. space to manoeuvre<br>c. route (length, stairs, thresholds)<br>d. lighting,<br>e. possible obstructions<br>f. Greasy or slippery floor<br>g. SIMOPS along the route<br>16. For lengthy route inspect before manual carrying the load, if necessary, isolate the route (I) | 3   | A  | A3  |                       |
|  | H – Incorrect manual handling techniques<br>H – Fatigue |  | Personnel involved in the work  | 4  | C   | C4  | Control measures 1 to 12<br>17. Allow only personnel to participate that followed the  | 3   | A  | A3  |                       |



| Title/ Description   |  | Manual Handling   |  | GRA. No   |  | FS-01-IMS03-001-B-010  |   |  |  |
|--|--|---|--|---|--|--|---|--|--|
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers OVMSA Chapter 10 – Manual Handling   | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  | Life Saving Rule  | Line of Fire   |  |   |  |  |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   | D: Residual Risk   |  |   |  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br><br>En=Engineering Controls<br>A = Administration<br><br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.                                   | Potential Severity  | Likelihood of Occurrence   | Risk Rating  |
| Separate the job into individual tasks and record in sequence.                         | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> |
|  | H – Multiple manual handling lifts<br>H – Slips, trips & falls<br>H – Dropped load<br><br>E – Injuries<br>E – Fatality<br>E – Damaged equipment<br>E- Financial loss   |   |  |   |  | ‘Manual Handling Awareness’ training (A)<br><br>18. Reduce bending, twisting, reaching movements (A)<br><br>19. Use proper manual handling techniques: straight back, correct posture (A)<br><br>20. ‘Stop the Job’ Policy (A)<br><br>21. Apply SLAM before starting with the job (A)<br><br>22. Consider risk of dropped load and minimise heigh of fall of the load (A)<br><br>23. Wear appropriate PPEs (PPE) |   |  |  |
| Emergency preparedness for potential emergency situation (Injury, damage to equipment) | H – Slips, trips & falls<br>H – Drop of cargo which was manual handled<br><br>E – Injury<br>E – Damage to equipment<br>E – Damage to 3 <sup>rd</sup> party property  | Personnel involved in the work  | 3  | C   | C3   | 24. Follow the appropriate emergency response checklist<br>Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)<br><br>25. Adhere to FS-01-IMS17–001<br>Emergency Response Manual (A)   | 3   | A  | A3   |

Generic Risk Assessment

| Manual Handling  |  |   |  | GRA. No   |   | FS-01-IMS03-001-B-010  |  |
|--|--|---|--|---|---|--|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers OVMISA Chapter 10 – Manual Handling  |   |  | FS-01-IMS03-001 Health & Safety at Work   |   | Life Saving Rule   |  |
| Reference Source   | IMS Procedure  |   |  | FS-01-IMS03-001 Health & Safety at Work   |   | Line of Fire   |  |
| Tasks  | A: Hazard  |   |  | B: Initial Risk   |   | C: Controls  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | D: Residual Risk   |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high medium or low</b> | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administrative<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | From matrix, identify consequence with controls in place for each hazard. (1-5)<br><br>From matrix, identify likelihood with controls in place for each hazard. (A-E)<br><br>Classify risk rating from matrix for each hazard. <b>high medium or low</b> |
|  |  |   |  |   |   | 26. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>27. Emergency equipment is available and maintained as per PMS (A)   |  |
| Assessor's Name(s)   | Reviewers Name(s)  |   |  | Date  |   | Time   |  |
| Tommaso Perelli (Initial 2021)                                 | Muru Palaney (Initial 2021)  |   |  | 1 September 2022  |   | 08:00  |  |
| Marino Buselic, Vijay Mundath (Review 2022)                    | Tommaso Perelli, Muru Palaney (Review 2022)  |   |  | FS  |   | 01   |  |
|  |  |   |  | Approval  |   | Date   |  |
|  |  |   |  | Next Review date  |   | 1 September 2022   |  |

# Generic Risk Assessment

| Title/ Description   | Drill-Training - Lifeboat - Launch & Recovery & Operation  |   |  |   | GRA. No  | FS-01-IMS03-001-B-011  |
|--|--|---|--|---|--|--|
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers  | IMS Procedure   | Emergency Response Manual  | Life Saving Rule  | Work Authorisation   |  |
|  | OVMSA 1.1 - Emergency Preparedness and Contingency Planning  |   | FS-01-IMS03-001 Health & Safety at Work  | SOLAS Training Manual   |  |  |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   | D: Residual Risk   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.   | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b>   |
| Lifeboat drill planning  | H – Communication failure<br>H – misunderstanding instructions or procedure<br>H – Unfamiliarity with operations<br>H - Launching without authority permission<br>H: Poor mental health of crew involved<br>H: Unfavourable work environment (stress, victimization, etc.)<br>H: Fatigue<br><br>E – Inadequate execution | Personnel involved  | 1  | C   | C1   | 1. Plan lifeboat launch in favourable weather / sea state (such as in port or sheltered area) (S)<br>2. Heading of vessel, create leeway (I)<br>3. Toolbox talk, including discussing safety training manual launching procedures and other applicable requirements (A)<br>4. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A) |
|  |  |   |  |   | 1  | A<br><br>A1  |

Generic Risk Assessment

| Drill-Training - Lifeboat - Launch & Recovery & Operation      |  |   |  |  | GRA. No   | FS-01-IMS03-001-B-011   |
|--|--|---|--|--|---|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers<br>OVMSA 11 - Emergency Preparedness and Contingency Planning  |   | IMS Procedure  | FS-01-IMS17-001<br>Emergency Response Manual<br>FS-01-IMS03-001 Health & Safety at Work<br>SOLAS Training Manual | Life Saving Rule  | Work Authorisation  |
| Reference Source   |  |   |  |  |   |   |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls  |   | D: Residual Risk  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence   | Risk Rating   | Potential Severity  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)                                | Classify risk rating from matrix for each hazard. (high, medium or low)   | From matrix, identify consequence with controls in place for each hazard. (1-5) |
| E: Injuries<br>E: Poor results due to loss of time             |  |   |  |  | 5. All personnel involved to comply with cultural awareness and no harassment policy (A)<br>6. Plan work schedule and regular breaks, comply with work and rest hours (A)<br>7. Comply with speak up policy (A)<br>8. Clear task division (A)<br>9. Define ways of communication (A)<br>10. Obtain permission from Port Authorities or Control Room of the installation controlling offshore area (A)<br>11. Follow ship specific procedure and manufacturer manual (A)<br>12. Comply with MOPO (A)<br>13. Ensure lifeboat maintenance is up to date with PMS and manufacturer requirements (A) | Classify risk rating from matrix for each hazard. (high, medium or low)         |

| Drill-Training - Lifeboat - Launch & Recovery & Operation   |  |   |  |  | GRA. No  | FS-01-IMS03-001-B-011  |   |  |  |
|---|--|---|--|--|--|--|---|--|--|
| Title/ Description  | Code of Safe Working Practices for Merchant Seafarers<br>OVMSA 11 - Emergency Preparedness and Contingency Planning  |   | IMS Procedure  | FS-01-IMS17-001<br>Emergency Response Manual<br>FS-01-IMS03-001 Health & Safety at Work<br>SOLAS Training Manual | Life Saving Rule   | Work Authorisation   |   |  |  |
| Reference Source  |  |   |  |  |  |  |   |  |  |
| Tasks   | A: Hazard  | B: Initial Risk   |  | C: Controls  |  | D: Residual Risk   |   |  |  |
|   | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence   | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br><br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | Potential Severity  | Likelihood of Occurrence   | Risk Rating  |
| Separate the job into individual tasks and record in sequence.  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)                                | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |
|   |  |   |  |  |  | 14. Use certified equipment (A)<br>15. Only essential trained crew familiar with ship specific equipment and procedures in the lifeboat during drills (A)<br>16. Use appropriate PPE as per PPE Matrix (PPE)   |   |  |  |
| Emergency preparedness for potential emergency situation (Equipment failure, MOB, Capsize of lifeboat, damage to equipment, Loss of lifeboat,etc. ) | H – Equipment failure<br>H – Unfamiliar crew<br>E – Loss of lifeboat<br>E – Death<br>E – Injury<br>E – Damage to equipment<br>E – MOB  | Personnel involved  | 4  | C  | C4   | 17. Follow the appropriate emergency response checklist<br>Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)<br>18. Adhere to FS-01-IMS17-001<br>Emergency Response Manual (A)<br>19. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)   | 4   | A  | A4   |

Generic Risk Assessment

| Drill-Training - Lifeboat - Launch & Recovery & Operation      |  |   |  |   | GRA. No  | FS-01-IMS03-001-B-011   |
|--|--|---|--|---|--|---|
| Title/ Description   |  |   |  |   |  |   |
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers<br>OVMISA 11 - Emergency Preparedness and Contingency Planning   | IMS Procedure   | FS-01-IMS17-001<br>Emergency Response Manual<br>FS-01-IMS03-001 Health & Safety at Work<br>SOLAS Training Manual | Life Saving Rule  |  | Work Authorisation  |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   | D: Residual Risk   |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5)                               | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b>   | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b>  |
|  |  |   |  |   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administrative<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | From matrix, identify consequence with controls in place for each hazard. (1-5)<br><br>From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |  |   |  |   | 20. Emergency equipment is available and maintained as per PMS (A)   |   |
|  |  |   |  |   | 21. When the release hook is not in the correct position, do not enter the boat (E)  |   |
|  |  |   |  |   | 22. Ensure access to lifeboat is clear of obstructions (I)   |   |
|  |  |   |  |   | 23. Make sure that all hatches and boat openings are well closed and secured before lowering and hoisting (I)  |   |
|  |  |   |  |   | 24. Fall preventive device (hook locking pins or certified strops/slings) in place prior to crew entering the boat (En)  |   |
|  |  |   |  |   | 25. Ensure proper lighting available at embarkation location (En)  |   |
| Preparation for launching the lifeboat                         | H - Movement of vessel<br>H - Accidental boat launch/drop from height<br>H – Slips trips and falls<br>E - Injury<br>E - Equipment damage   | Personnel involved  | 3  | C   | C3   | B2  |

Generic Risk Assessment

| Drill-Training - Lifeboat - Launch & Recovery & Operation      |  |   |  | GRA. No  | FS-01-IMS03-001-B-011   |   |
|--|--|---|--|--|---|---|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers<br>OVMSA 11 - Emergency Preparedness and Contingency Planning  |   | IMS Procedure  | FS-01-IMS17-001<br>Emergency Response Manual<br>FS-01-IMS03-001 Health & Safety at Work<br>SOLAS Training Manual | Life Saving Rule  | Work Authorisation  |
| Reference Source   |  |   |  |  |   |   |
| Tasks  | A: Hazard  | B: Initial Risk   | C: Controls  | D: Residual Risk   |   |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence   | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)                                | Classify risk rating from matrix for each hazard. (high, medium or low) | From matrix, identify likelihood with controls in place for each hazard. (A-E)  |
|  |  |   |  |  |   | Classify risk rating from matrix for each hazard. (high, medium or low)   |
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| Drill-Training - Lifeboat - Launch & Recovery & Operation      |  |   |  |  | GRA. No   | FS-01-IMS03-001-B-011   |
|--|--|---|--|--|---|---|
| Title/ Description   | IMS Procedure  |   |  | FS-01-IMS17-001<br>Emergency Response<br>Manual<br>FS-01-IMS03-001 Health &<br>Safety at Work<br>SOLAS Training Manual | Life Saving Rule  | Work Authorisation  |
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers<br>OVMISA 11 - Emergency Preparedness and Contingency Planning   |   |  |  |   |   |
| Tasks  | A: Hazard  | B: Initial Risk   | C: Controls  | D: Residual Risk   |   |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence   | Risk Rating   |   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E)                                      | Classify risk rating from matrix for each hazard. (high, medium or low)   | Classify risk rating from matrix for each hazard. (high, medium or low)         |
|  |  |   |  |  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administrative<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | From matrix, identify consequence with controls in place for each hazard. (1-5) |
|  |  |   |  |  | <ul style="list-style-type: none"> <li>Either, when the boat suspended on pennants (see manufacturer manual)</li> <li>Or with crew inside the boat and boat lifted off the water max 0.5m</li> </ul> 33. 'Stop the Job' Policy (A)<br>34. Use SLAM before starting the job (A)  |   |
| Operations with Lifeboat                                       | H - Untrained/unqualified crew operating the boat<br>H - Sudden changes in weather<br>H - Equipment failure<br>E - Injury<br>E - Collision<br>E - Damage   | Lifeboat crew<br>Vessel<br>Lifeboat   | 4  | C  | C4  | B3  |
| Recovery of boat   | H - Incorrect recovery of lifeboat   | Launch team   | 5  | C  | C5  | A4  |

Generic Risk Assessment

| Drill-Training - Lifeboat - Launch & Recovery & Operation      |  |   |  |   | GRA. No   | FS-01-IMS03-001-B-011   |
|--|--|---|--|---|---|---|
| Title/ Description   | IMS Procedure  |   | FS-01-IMS17-001<br>Emergency Response<br>Manual<br>FS-01-IMS03-001 Health &<br>Safety at Work<br>SOLAS Training Manual |   | Life Saving Rule  | Work Authorisation  |
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers<br>OVMISA 11 - Emergency Preparedness and Contingency Planning   |   |  |   |   |   |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   |   | D: Residual Risk  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5)                                     | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) | Classify risk rating from matrix for each hazard. (high, medium or low)   |
|  | H - Failure to recover the boat due to lack of maintenance/faulty equipment<br>H – Adverse weather developed during drill<br>H - Untrained/unqualified crew operating the boat<br><br>E - Injury<br>E - Damage           | Lifeboat crew<br>Vessel<br>Lifeboat   |  |   |   |   |
|  |  |   |  |   |   |   |
| Assessor's Name(s)   | Reviewers Name(s)  |   | Date   | Time  |   |   |
|  |  |   | 1 September 2022   | 08:00   |   |   |

Generic Risk Assessment

| Drill-Training - Lifeboat - Launch & Recovery & Operation      |  |   |  | GRA. No   | FS-01-IMS03-001-B-011   |
|--|--|---|--|---|---|
| Title/ Description   |  |   |  |   |   |
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers<br>OVMISA 11 - Emergency Preparedness and Contingency Planning   | IMS Procedure   | FS-01-IMS17-001<br>Emergency Response Manual<br>FS-01-IMS03-001 Health & Safety at Work<br>SOLAS Training Manual | Life Saving Rule  | Work Authorisation  |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   | D: Residual Risk  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5)                               | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
|  |  |   |  |   |   |
| Thiha, Irfan Afzal (Initial 2021)                              |  | Muru Palaney, Tommaso Perelli (Initial 2021)  |  | Location  | FS  |
| Marino Buselic, Vijay Mundath (Review 2022)                    |  | Tommaso Perelli, Muru Palaney (Review 2022)   |  | Approval  | Julia Korpak  |
|  |  |   |  | Next Review date  | 31 August 2023  |
|  |  |   |  | Rev. No   | 01  |
|  |  |   |  | Date  | 1 September 2022  |

# Generic Risk Assessment

| Ballasting / De-Ballasting Operations                          |  |   |  | GRA. No   |   | FS-01-IMS03-001-B-012  |                  |                  |    |                    |  |
|--|--|---|--|---|---|--|------------------|------------------|----|--------------------|--|
| Title/ Description   | Reference Source   |   |  | IMS Procedure   |   | FS-02-SHP-BWMP-001 – Ballast Water Management Plan   |                  | Life Saving Rule |    | Work Authorisation |  |
| Tasks  | A: Hazard  |   | B: Initial Risk  |   | C: Controls   |  | D: Residual Risk |                  |    |                    |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   |                  |                  |    |                    |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.   | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |  |                  |                  |    |                    |  |
| Ballasting and de-ballasting - Planning                        | H: Poor preparation<br>H: Incorrect stability calculations<br>H: Poor communication, loss of focus on task.<br>H: Poor mental health of crew involved<br>H: Unfavourable work environment (stress, victimization, etc.)<br><br>E: Loss of Stability<br>E: Flooding<br>E: Structural damage due to pressurised tank | Personnel on board Vessel   | 3  | C   | C3  | 1. Check ballast tank vents to make sure they are clear for outflow/intake of air while loading/discharging ballast to avoid over pressurizing or creating vacuum in tank that could lead to structural damage (En).<br>2. Tank level sensors to be available and maintained as per PMS (En)<br>3. Follow Ballast Water Management Plan (A)<br>4. Person performing task should be fit for work. Take in account |                  |                  |    |                    |  |
|  |  |   |  |   |   |  | 3                | A                | A3 |                    |  |

## Generic Risk Assessment

| Title/ Description   |   | Ballasting / De-Ballasting Operations   |  |   |  | GRA. No   | FS-01-IMS03-001-B-012  |
|--|---|---|--|---|--|---|--|
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers<br>OVMSA 6C Offshore operations - Cargo, bunkering, ballasting and stability<br>OVMSA - Element 10 Environmental and energy management<br>IMO – International Maritime Organisation | IMS Procedure   | FS-02-SHP-BWMP-001 – Ballast Water Management Plan                                 | Life Saving Rule  | Work Authorisation   |   |  |
| Tasks  | A: Hazard   | B: Initial Risk   |  | C: Controls   |  | D: Residual Risk  |  |
|  | Hazard Description and Effect   | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |   |   |  |   |  |   | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |

## Generic Risk Assessment

| Title/ Description   |   | Ballasting / De-Ballasting Operations   |  |   |  | GRA. No   | FS-01-IMS03-001-B-012  |
|--|---|---|--|---|--|---|--|
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers<br>OVMSA 6C Offshore operations - Cargo, bunkering, ballasting and stability<br>OVMSA - Element 10 Environmental and energy management<br>IMO – International Maritime Organisation | IMS Procedure   | FS-02-SHP-BWMP-001 – Ballast Water Management Plan                                 | Life Saving Rule  | Work Authorisation   |   |  |
| Tasks  | A: Hazard   | B: Initial Risk   |  | C: Controls   |  | D: Residual Risk  |  |
|  | Hazard Description and Effect   | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | Risk Rating  |
| Separate the job into individual tasks and record in sequence.   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | From matrix, identify consequence with controls in place for each hazard. (1-5)   | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |
|  |   |   |  |   |  | 9. Performing Stability calculations with a class approved stability program or stability booklet (A).<br>10. Personnel involved in ballast operation familiarised with system and work operation (A).<br>11. Toolbox meeting (A).<br>12. 'Stop the Job' Policy (A).<br>13. Use SLAM before starting the job (A).   |  |
| Emergency preparedness for potential emergency situation (List, Capsize, Structural damage, Pollution, damage to | H – Wrong ballast plan<br>H – Ballast operator mistake<br>E – List<br>E – Capsize<br>E – Death<br>E – Injury<br>E – Pollution   | Personnel on board Vessel   | 4  | C   | C4   | 14. Follow the appropriate emergency response checklist<br>Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)<br>15. Adhere to FS-01-IMS17-001<br>Emergency Response Manual (A)  | A<br>4<br>A4   |

| Ballasting / De-Ballasting Operations                          |   |   |  | GRA. No   |   | FS-01-IMS03-001-B-012   |
|--|---|---|--|---|---|---|
| Title/ Description   | Reference Source  |   |  | Life Saving Rule  |   | Work Authorisation  |
|  | Code of Safe Working Practices for Merchant Seafarers<br>OVMISA 6C Offshore operations - Cargo, bunkering, ballasting and stability<br>OVMISA - Element 10 Environmental and energy management<br>IMO – International Maritime Organisation |   |  | FS-02-SHP-BWMP-001 – Ballast Water Management Plan                                |   |   |
|  | IMS Procedure   |   |  |   |   |   |
| Tasks  | A: Hazard   | B: Initial Risk   | C: Controls  | D: Residual Risk  |   |   |
|  | Hazard Description and Effect   | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                    | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low)   | Classify risk rating from matrix for each hazard. (high, medium or low) |
| equipment, Equipment failure, etc.)                            | E – Damage to equipment<br>E -Damage to 3 <sup>rd</sup> party property<br>E -Equipment failure  |   |  |   | 16. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>17. Emergency equipment is available and maintained as per PMS (A)  |   |
| Ballasting and de-ballasting - Operations                      | H: Equipment malfunction<br>H: Incorrect stability calculations<br>H: Poor communication, loss of focus on task<br>E: Loss of Stability<br>E: Flooding<br>E: Structural damage due to pressurised tank                                      | Personnel on board Vessel   | 5  | C   | C5  | A4  |
|  |   |   |  |   | Control measures 1 to 17, as applicable<br>18. Regularly monitor tank gauges and where possible take physical soundings (En)<br>19. Follow ballast sequence as per plan (A).<br>20. Monitor ballast/de-ballast operations throughout the execution, avoid SIMOPS/distractions (A) |   |



| Title/ Description   |  | Ballasting / De-Ballasting Operations   |  |   |  | GRA. No   | FS-01-IMS03-001-B-012  |
|--|--|---|--|---|--|---|--|
| Reference Source   | Code of Safe Working Practices for Merchant Seafarers  | IMS Procedure   | FS-02-SHP-BWMP-001 – Ballast Water Management Plan                                 | Life Saving Rule  | Work Authorisation   |   |  |
|  | OVMSA 6C Offshore operations - Cargo, bunkering, ballasting and stability  |   |  |   |  |   |  |
|  | OVMSA - Element 10 Environmental and energy management   |   |  |   |  |   |  |
|  | IMO – International Maritime Organisation  |   |  |   |  |   |  |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   | D: Residual Risk   |   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
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| Title/ Description                          |   | Ballasting / De-Ballasting Operations   |  |   | GRA. No   |   | FS-01-IMS03-001-B-012  |   |
|---|---|---|--|---|---|---|--|---|
| Reference Source                            | Code of Safe Working Practices for Merchant Seafarers<br>OVMISA 6C Offshore operations - Cargo, bunkering, ballasting and stability<br>OVMISA - Element 10 Environmental and energy management<br>IMO – International Maritime Organisation | IMS Procedure   | FS-02-SHP-BWMP-001 – Ballast Water Management Plan                                 | Life Saving Rule  |   | Work Authorisation  |  |   |
| Tasks                                       | A: Hazard   | B: Initial Risk   |  | C: Controls   |   | D: Residual Risk  |  |   |
|   | Hazard Description and Effect   | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |  |   |
|   | Separate the job into individual tasks and record in sequence.  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) | From matrix, identify consequence with controls in place for each hazard. (1-5)   | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
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| Assessor's Name(s)                          | Reviewers Name(s)   |   | Date   | 1 September 2022  | Time  | 08:00   |  |   |
| Iris de Vos (Initial 2021)                  | Muru Palaney, Tommaso Perelli (Initial 2021)  |   | Location   | FS  | Rev. No   | 01  |  |   |
| Marino Buselic, Vijay Mundath (Review 2022) | Tommaso Perelli, Muru Palaney (Review 2022)   |   | Approval   | Julia Korpak  | Date  | 1 September 2022  |  |   |
|   |   |   | Next Review date   | 31 August 2023  |   |   |  |   |

# Generic Risk Assessment

| Maintenance - Lifting Equipment and Accessories   |   |   |  |   |   | GRA. No  | FS-01-IMS03-001-B-013  |
|---|---|---|--|---|---|--|--|
| Title/ Description  | Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist   |   |  | IMS Procedure   | FS-01-IMS12C-001 Lifting Equipment Procedure  | Life Saving Rule   | Safe Mechanical Lifting  |
| Tasks   | A: Hazard   | Personnel at Risk   | B: Initial Risk  |   | C: Controls   |  | D: Residual Risk   |
|   | Hazard Description and Effect   | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |  |
| Separate the job into individual tasks and record in sequence.                              | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b>  | From matrix, identify consequence with controls in place for each hazard. (1-5)  | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
| Assessment and preparation for lifting equipment and accessories maintenance and inspection | H - Misunderstanding of procedures<br>H - Records and certificates not monitored and maintained<br>H - Uncoordinated task or action execution<br>H - Unfamiliarity with the equipment and accessories to be maintained and inspected<br>H – Poor ergonomics considerations<br>H: Poor mental health of crew involved<br>H: Unfavourable work environment (stress, victimization, etc.)<br><br>E – Improper task preparation | Crew  | 2  | D   | D2  | 1  | B<br><br>B1  |
|   |   |   |  |   | 1. Follow Lifting Equipment Procedure (A)<br>2. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A)<br>3. All personnel involved to comply with cultural awareness and no harassment policy (A)<br>4. Plan work schedule and regular breaks, comply with work and rest hours (A)<br>5. Comply with speak up policy (A)<br>6. Inspect equipment at appropriate intervals in line with PMS and manufacturer guidance (A)<br>7. Use of Up-to Date Forms and Checklists as to the latest |  |  |

Generic Risk Assessment

| Maintenance - Lifting Equipment and Accessories                |  |   |  |   | GRA. No   |  | FS-01-IMS03-001-B-013   |  |
|--|--|---|--|---|---|--|---|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist  |   |  |   | FS-01-IMS12C-001 Lifting Equipment Procedure  |  | Life Saving Rule  |  |
| Reference Source   | IMS Procedure  |   |  |   | FS-01-IMS12C-001 Lifting Equipment Procedure  |  | Safe Mechanical Lifting   |  |
| Tasks  | A: Hazard  |   | B: Initial Risk  |   | C: Controls   |  | D: Residual Risk  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br><br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high</b> , <b>medium</b> or <b>low</b> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  | E – Use of expired or poorly maintained lifting equipment or accessories   |   |  |   |   | Company Safety Standard System (A)<br><br>8. Proper Documentation, Filing and Record Keeping (A)<br><br>9. TBT and TRA for the task (A)<br><br>10. LOTO and PTW in place, if required (A)<br><br>11. If maintenance to be carried 2m above deck requires the completion of Work at Height Permit with Rescue Plan and Rescue Equipment inspected and available. (A)<br><br>12. Verification of current records and certification (A)<br><br>13. Qualified and competent crew in line with procedure requirement to do the preparation and plans for the task (A)<br><br>14. Establish communication means between parties where required (A) |   |  |
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Generic Risk Assessment

| Maintenance - Lifting Equipment and Accessories   |  |   |  |   | GRA. No   |   | FS-01-IMS03-001-B-013 |  |                         |  |  |
|---|--|---|--|---|---|---|-----------------------|--|-------------------------|--|--|
| Title/ Description  | Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist  |   |  |   | FS-01-IMS12C-001 Lifting Equipment Procedure  |   | Life Saving Rule      |  | Safe Mechanical Lifting |  |  |
| Reference Source  | IMS Procedure  |   |  |   | FS-01-IMS12C-001 Lifting Equipment Procedure  |   | Life Saving Rule      |  | Safe Mechanical Lifting |  |  |
| Tasks   | A: Hazard  |   | B: Initial Risk  |   | C: Controls   |   | D: Residual Risk      |  |                         |  |  |
|   | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   |                       |  |                         |  |  |
| Separate the job into individual tasks and record in sequence.  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high</b> , <b>medium</b> or <b>low</b> |   |                       |  |                         |  |  |
|   |  |   |  |   |   | 15. Trainings/Familiarization either on board or ashore to gain and retain full knowledge and skills. (A)<br><br>16. Apply proper manual handling techniques where task required to handle loads (A)<br><br>17. Use of PPE appropriate for task and in line with PPE matrix (PPE)<br><br>18. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)<br><br>19. Adhere to FS-01-IMS17-001 Emergency Response Manual (A)<br><br>20. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A) |                       |  |                         |  |  |
| Emergency preparedness for potential emergency situation (Slip, trips & falls, Injury, Equipment failure, etc.) | H – Slips, Trips & falls<br>H – Personnel not familiar with task<br>H – Manufacturer instruction not followed<br>E – Death<br>E – Injury<br>E – Damage to equipment  | Crew involved   | 4  | C   | C4  | 4 A A4  |                       |  |                         |  |  |

Generic Risk Assessment

| Maintenance - Lifting Equipment and Accessories                           |  |   |  |   | GRA. No   | FS-01-IMS03-001-B-013  |   |  |   |
|---|--|---|--|---|---|--|---|--|---|
| Title/ Description  | Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist  |   |  |   | FS-01-IMS12C-001 Lifting Equipment Procedure                                    | Life Saving Rule   | Safe Mechanical Lifting   |  |   |
| Tasks   | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   | D: Residual Risk   |   |  |   |
|   | Hazard Description and Effect  | Risk  | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence.            | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>high, medium or low</b> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>high, medium or low</b> |
|   |  |   |  |   |   | 21. Emergency equipment is available and maintained as per PMS (A)   |   |  |   |
| Execution of lifting equipment and accessories maintenance and inspection | H - Improper delegation of work<br>H - Dropped Objects.<br>H - Slip, trips and fall.<br>E - Injury<br>E - damage to property and equipment   | Crew  | 4  | C   | C4  | Control measures 1 to 21 as applicable<br>22. Positioning away from line of fire hazards (I)<br>23. Any observation found on the crane and other lifting equipment/accessories while completing the inspection must be reported and equipment must be quarantined until is repaired or offloaded (I)<br>24. Isolate work area around a suspended load and lay down areas during crane lifting test and maintenance (I)<br>25. In case of maintenance of pressurised or electrically powered lines, ensure LOTO is in | 4   | A  | A4  |

Generic Risk Assessment

| Maintenance - Lifting Equipment and Accessories                |  |   |  |   | GRA. No  |  | FS-01-IMS03-001-B-013  |  |
|--|--|---|--|---|--|--|--|--|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist  |   |  |   | FS-01-IMS12C-001 Lifting Equipment Procedure                                 |  | Life Saving Rule   |  |
| Reference Source   | IMS Procedure  |   |  |   | Safe Mechanical Lifting  |  |  |  |
| Tasks  | A: Hazard  |   | B: Initial Risk  |   | C: Controls  |  | D: Residual Risk   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  |  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> | From matrix, identify consequence with controls in place for each hazard. (1-5)  | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> |
|  |  |   |  |   |  | place and stored energy released.<br>(En)<br><br>26. Designated banksman must be aware of his surroundings and the safety of personnel involved in the task. (A)<br><br>27. The Lifting Equipment, Load and Accessories are inspected in line with procedure and manufacturer instructions (A)<br><br>28. Responsible supervisor to be the look-out while monitoring and carrying-out the Lifting Maintenance and Inspections. (A)<br><br>29. SLAM (A)<br>30. Stop the Job (A)<br><br>31. All items especially movable and falling objects properly arranged and secured. (I)<br>32. All safety limits and guards are back in operation mode. (En) |  |  |
| Restore back to operations                                     | H – Poor housekeeping<br>H – Inadequate measures in place before power is restored<br>H – Dropped object   | Crew  | 4  | C   | C4   | 4  | A  | A4   |



Generic Risk Assessment

| Maintenance - Lifting Equipment and Accessories                |  |   |  |   | GRA. No   | FS-01-IMS03-001-B-013   |                          |             |
|--|--|---|--|---|---|---|--------------------------|-------------|
| Title/ Description   | Code of Safe Working Practices for Merchant Seafarers, IMS Forms, Work Instructions and Checklist  |   |  | IMS Procedure   | FS-01-IMS12C-001 Lifting Equipment Procedure  | Life Saving Rule  | Safe Mechanical Lifting  |             |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   |   | D: Residual Risk         |             |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |                          |             |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high</b> , <b>medium</b> or <b>low</b> | From matrix, identify consequence with controls in place for each hazard. (1-5)   | Likelihood of Occurrence | Risk Rating |
|  | H – Lifting equipment and accessories not ready for operations<br><br>E – Injury<br>E – Equipment damage<br>E – Operations delays  |   |  |   |   | 33. After maintenance and inspection ensure system is ready and power back on in line with LOTO procedure (A)<br><br>34. Inspect area making sure all tools and equipment are secured. (A)<br><br>35. Good Housekeeping around the area. (A)  |                          |             |
| Assessor's Name(s)   | Reviewers Name(s)  |   | Date   |   | Time  |   |                          |             |
| Edgar Cristopher Gapuz (Initial 2021)                          | Tommaso Perelli, Muru Palaney (Initial 2021)   |   | 1 September 2022   |   | 08:00   |   |                          |             |
| Marino Buselic, Vijay Mundath (Review 2022)                    | Tommaso Perelli, Muru Palaney (Review 2022)  |   | Location   |   | Rev. No   |   | 1 September 2022         |             |
|  |  |   | Approval   |   | Date  |   |                          |             |
|  |  |   | Next Review date   |   |   |   |                          |             |

# Generic Risk Assessment

| Title/ Description   |  | Maintenance - Painting  |  |   | FS-01-IMS03-001 Health & Safety at Work                                      |  | GRA. No  | FS-01-IMS03-001-B-014  |
|--|--|---|--|---|--|--|--|--|
| Reference Source   | Code of Safe working practices   |   | IMS Procedure  |   | Life Saving Rule   |  | Work Authorisation   |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |  | D: Residual Risk   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> | Potential Severity   | Likelihood of Occurrence   | Risk Rating  |
|  |  |   |  |   |  | From matrix, identify consequence with controls in place for each hazard. (1-5)  | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> |
| Preparation for painting - general                             | H – Communication failure  |   |  |   | C1   | 1  | A  | A1   |
|  | H – Procedure lack of understanding  |   |  |   |  |  |  |  |
|  | H – Failure to plan the task   |   |  |   |  |  |  |  |
|  | H – Failure to identify hazards of work area   |   |  |   |  |  |  |  |
|  | H - Inadequate PPE / PPE not used  |   |  |   |  |  |  |  |
|  | H: Equipment   | Crew  | 1  | C   |  | 1  | A  | A1   |
|  | H -Noise   |   |  |   |  |  |  |  |
|  | H: Use of Equipment  |   |  |   |  |  |  |  |
|  | H: Vibration   |   |  |   |  |  |  |  |
|  | H: Poor mental health of crew involved   |   |  |   |  |  |  |  |
|  | H: Unfavourable work environment (stress, victimization, etc.)   |   |  |   |  |  |  |  |
|  | E: HAVS (Hand Arm Vibration Syndrome)  |   |  |   |  |  |  |  |
|  | E: Poor quality standards of equipment used  |   |  |   |  |  |  |  |

Generic Risk Assessment

| Maintenance - Painting   |  |   |  | FS-01-IMS03-001 Health & Safety at Work   |   | Life Saving Rule  | GRA. No   | FS-01-IMS03-001-B-014  |
|--|--|---|--|---|---|---|---|--|
| Title/ Description   | Code of Safe working practices   |   |  | IMS Procedure   |   | Work Authorisation  |   |  |
| Reference Source   | A: Hazard  |   |  | B: Initial Risk   |   | C: Controls   |   |  |
| Tasks  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | D: Residual Risk  |   |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high medium or low)</b> | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  | E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration syndrome), white finger, etc.<br><br>E – Improper measures in place   |   |  |   |   | 8. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A)<br>9. All personnel involved to comply with cultural awareness and no harassment policy (A)<br>10. Comply with work and rest hours (A)<br>11. Comply with speak up policy (A)<br>12. Thoroughly visually inspect / test the equipment before use (A)<br>13. Be aware of HAVS symptoms to allow early detection. Discuss hazard and safe working period in toolbox (A)<br>14. Maximum trigger times of tools to be known in line with Noise and Vibration procedure. (A)<br>15. Supervisors to monitor vibration exposure using the calculator belonging to and in line with |   |  |
|  |  |   |  |   |   |   |   |  |

Generic Risk Assessment

| Maintenance - Painting   |  |   |  | FS-01-IMS03-001 Health & Safety at Work   |   | GRA. No  | FS-01-IMS03-001-B-014   |  |   |
|--|--|---|--|---|---|--|---|--|---|
| Title/ Description   | Code of Safe working practices   |   |  | IMS Procedure   | Life Saving Rule  |  | Work Authorisation  |  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   | D: Residual Risk   |   |  |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity<br>From matrix, identify consequence with controls in place for each hazard. (1-5) | Likelihood of Occurrence<br>From matrix, identify likelihood with controls in place for each hazard. (A-E) | Risk Rating<br>Classify risk rating from matrix for each hazard<br><b>(high, medium or low)</b> |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>(high, medium or low)</b> |  |   |  | Classify risk rating from matrix for each hazard<br><b>(high, medium or low)</b>                |
|  |  |   |  |   |   | Noise and Vibration procedure (A)<br>16. Noise exposure levels to be monitored by site supervisors. (A)<br>17. Work share/rotation of task is recommended to reduce individual exposure to noise (and vibration). (A)<br>18. Planning of tasks including suitable breaks from noise/vibration exposure (A)<br>19. Monitor possible conflict with SIMOPS (A)<br>20. Check that weather forecast is suitable for painting operations (A)<br>21. All PPE must be in good condition. (PPE) |   |  |   |
| Emergency preparedness for potential emergency situation       | H – Instruction manual not followed<br>H – SDS not followed<br>E - Injury<br>E – Poisoning   | Crew on board   | 4  | C   | C4  | 22. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)  | 4   | A  | A4  |

Generic Risk Assessment

| Maintenance - Painting  |  |  | FS-01-IMS03-001 Health & Safety at Work |   | Life Saving Rule |  | GRA. No |   | FS-01-IMS03-001-B-014 |   |  |
|---|--|--|---|---|------------------|--|---------|---|-----------------------|---|--|
| Reference Source  |  | Code of Safe working practices   |   | IMS Procedure   |                  | FS-01-IMS03-001 Health & Safety at Work  |         | Work Authorisation  |                       |   |  |
| Tasks   |  | A: Hazard  |   | B: Initial Risk   |                  | C: Controls  |         | D: Residual Risk  |                       |   |  |
|   |  | Personnel at Risk  |   | Potential Severity  |                  | Likelihood of Occurrence   |         | Risk Rating   |                       | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows   |  |
|   |  | Hazard Description and Effect  |   | From matrix, identify consequence with no controls in place for each hazard. (1-5)                          |                  | From matrix, identify likelihood with no controls in place for each hazard. (A-E)  |         | Classify risk rating from matrix for each hazard. (high, medium or low)   |                       | E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |  |
| Separate the job into individual tasks and record in sequence.  |  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.   |   | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. |                  | From matrix, identify consequence with no controls in place for each hazard. (1-5) |         | From matrix, identify likelihood with no controls in place for each hazard. (A-E)   |                       | Classify risk rating from matrix for each hazard. (high, medium or low)   |  |
| (Poisoning, Injury, Pollution, Fire, Damage to equipment, etc.) |  | E – Damage to equipment<br>E - Pollution<br>E - Fire   |   |   |                  |  |         | 23. Adhere to FS-01-IMS17-001<br>Emergency Response Manual (A)<br>24. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>25. Emergency equipment is available and maintained as per PMS (A)  |                       |   |  |
| Preparation of painting area                                    |  | H – Inadequate lighting in place<br>H - Potential source of ignition (especially when painting in enclosed space or indoors)<br>H - Inadequate ventilation (Painting in enclosed space or indoors)<br>H – Falling from height (when painting at height)<br>H – Spill of polluting substances to the environment<br>H – Slips trips and falls<br>E – Injury |   | Crew  |                  | 4  |         | C   |                       | C4  |  |
|   |  |  |   |   |                  |  |         | 26. When painting on deck ensure scuppers are closed (I)<br>27. Work area to be swabbed and tested for Cr(VI) prior to starting. If positive, refer to Hexavalent Chromium-6 Cr(VI) GRA (En)<br>28. Existing lights to be maintained in good working condition. (A)<br>29. Additional lights used if required. (A)<br>30. Confined space PTW to be used and Confined space procedure to be complied with, if painting in confined spaces. (A) |                       | 4<br><br>A<br><br>A4  |  |

Generic Risk Assessment

| Maintenance - Painting   |  |   |  | GRA. No   |  | FS-01-IMS03-001-B-014   |
|--|--|---|--|---|--|---|
| Title/ Description   | Code of Safe working practices   |   |  | Life Saving Rule  |  |   |
| Reference Source   | IMS Procedure  |   |  | Work Authorisation  |  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | D: Residual Risk  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high medium or low)</b>  | From matrix, identify likelihood with controls in place for each hazard. (A-E)  |
|  | E - Pollution  |   |  |   | Classify risk rating from matrix for each hazard. <b>(high medium or low)</b>  | From matrix, identify consequence with controls in place for each hazard. (1-5) |
|  |  |   |  |   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | From matrix, identify likelihood with controls in place for each hazard. (A-E)  |
|  |  |   |  |   | 31. Work at height PTW to be used and work at height procedure to be complied with, if painting at height. (A)<br>32. Adequate ventilation of the space, where necessary additional forced ventilation to be used (A)<br>33. Continuous monitoring of the atmosphere within the confined space (A)<br>34. No smoking or hot work in the vicinity of the area. (A)<br>35. When painting on deck ensure SOPEP equipment is at hand (A)<br>36. Clear work area from obstacles before commencing, good housekeeping (A)<br>37. Check adjacent areas are suitable to allow for painting (A)<br>38. SLAM (A)<br>39. Stop the job (A) |   |

Generic Risk Assessment

| Maintenance - Painting   |  |   |  | FS-01-IMS03-001 Health & Safety at Work   |   | GRA. No  | FS-01-IMS03-001-B-014 |   |  |  |
|--|--|---|--|---|---|--|-----------------------|---|--|--|
| Title/ Description   | Code of Safe working practices   |   | IMS Procedure  |   | Life Saving Rule  |  | Work Authorisation    |   |  |  |
| Tasks  | A: Hazard  |   | B: Initial Risk  |   | C: Controls   |  | D: Residual Risk      |   |  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.       |                       | Potential Severity  | Likelihood of Occurrence   | Risk Rating  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. ( <b>high</b> , <b>medium</b> or <b>low</b> ) |  |                       | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard ( <b>high</b> , <b>medium</b> or <b>low</b> ) |
| Preparation of paint   | H – Wrong chemicals mixed<br>H - Splashes and spills<br>E – Injury<br>E – Pollution<br>E – Fire  | Crew  | 4  | C   | C4  | 40. Mixing carried out in controlled / contained area to limit possible spill and splash effects (I)<br>41. Mixing chemicals to be done by trained / experienced person (A)<br>42. Follow strictly manufacturer instructions (A)<br>43. Check availability of SDS and appropriate response equipment is at hand (A)<br>44. Appropriate PPE for the task are used (PPE) |                       | 4   | A  | A4   |
|  |  |   |  |   |   |  |                       |   |  |  |
|  |  |   |  |   |   |  |                       |   |  |  |
|  |  |   |  |   |   |  |                       |   |  |  |
| Painting operation   | H - Contact with skin / eye<br>H – Breathing of fumes/poor ventilation<br>H – Vessel's motion (Rolling, pitching etc due to weather)<br>H - Splashes and spills<br>H - Fatigue<br>E – Injury<br>E – Pollution            | Crew  | 4  | C   | C4  | Control measures 1 to 44, as applicable<br>45. Monitor weather condition for the planned task, stop task if condition becomes unsuitable. (E)<br>46. Keep paint in spill containment area if possible (I)<br>47. Adequate supervision maintained. (A)<br>48. Plan work and take regular breaks for resting (A)   |                       | 3   | A  | A3   |
|  |  |   |  |   |   |  |                       |   |  |  |



| Maintenance - Painting   |  |   |  | GRA. No   |   | FS-01-IMS03-001-B-014   |  |  |
|--|--|---|--|---|---|---|--|--|
| Title/ Description   | Code of Safe working practices   |   |  | IMS Procedure   |   | FS-01-IMS03-001 Health & Safety at Work   |  |  |
| Reference Source   | Life Saving Rule   |   |  | Work Authorisation  |   |   |  |  |
| Tasks  | A: Hazard  |   | B: Initial Risk  |   | C: Controls   |   | D: Residual Risk   |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A = Administration<br><br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) | Potential Severity  | Likelihood of Occurrence   | Risk Rating  |
|  |  |   |  |   |   | From matrix, identify consequence with controls in place for each hazard. (1-5)   | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard (high, medium or low) |
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## Generic Risk Assessment

| Maintenance - Painting   |  |   |  | GRA. No   | FS-01-IMS03-001-B-014  |   |   |  |  |
|--|--|---|--|---|--|---|---|--|--|
| Reference Source   | Code of Safe working practices   |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   | Life Saving Rule   | Work Authorisation  |   |  |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  | D: Residual Risk  |   |  |  |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | Potential Severity  | Likelihood of Occurrence   | Risk Rating  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> |
| Assessor's Name(s)   | Reviewers Name(s)  | Date  | 1 September 2022   | Time  | 08:00  |   |   |  |  |
| Miguel Ganuza, Melvin Fernandes (Initial 2021)                 | Muru Palaney, Tommaso Perelli (initial 2021)   | Location  | FS   | Rev. No   | 01   |   |   |  |  |
| Marino Buselic, Viigy Mundath (Review 2022)                    | Tommaso Perelli, Muru Palaney (Review 2022)  | Approval  | Julia Korpak   | Date  | 1 September 2022   |   |   |  |  |

# Generic Risk Assessment

| Title/ Description   |  | Maintenance -Deck – Chipping Including Use of Wire Brush  |  |   | FS-01-IMS03-001 Health & Safety at Work  |   | Life Saving Rule  | GRA. No  | FS-01-IMS03-001-B-015  |
|--|--|---|--|---|--|---|---|--|--|
| Reference Source   | Code of safe working practices   | IMS Procedure   |  | FS-01-IMS03-001 Health & Safety at Work   |  | Line of Fire  |   |  |  |
| Tasks  | A: Hazard  | B: Initial Risk   |  | C: Controls   |  | D: Residual Risk  |   |  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administrative<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Potential Severity  | Likelihood of Occurrence   | Risk Rating  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.   | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |
| Task planning and preparation                                  | H – Communication failure<br>H – Procedure lack of understanding<br>H – Failure to plan the task<br>H – Inadequate ergonomics considerations<br>H: Poor mental health of crew involved<br>H: Unfavourable work environment (stress, victimization, etc.)<br>E – Improper measures in place | Crew  | 1  | C   | C1   | 1. TBT with all involved (A)<br>2. Assess task and complete PTW/TRA, as required (A)<br>3. Use of equipment by competent and/or trained personnel (A)<br>4. Monitor possible conflict with SIMOPS (A)<br>5. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, mental health, physical health limitations. (A)<br>6. All personnel involved to comply with cultural awareness and no harassment policy (A)<br>7. Plan work schedule and regular breaks, comply with work and rest hours (A)<br>8. Comply with speak up policy (A) | 1   | A  | A1   |

## Generic Risk Assessment

| Maintenance -Deck – Chipping Including Use of Wire Brush   |  |   |  |   | GRA. No  | FS-01-IMS03-001-B-015  |
|--|--|---|--|---|--|--|
| Title/ Description   | Code of safe working practices   |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   | Life Saving Rule   | Line of Fire   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |  |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | D: Residual Risk   |
|  |  |   |  |   |  |  |
| Separate the job into individual tasks and record in sequence.   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  |
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| Emergency preparedness for potential emergency situation (Equipment failure, Fire, Electrical shock, Injury, etc.) | H – Equipment failure<br>H – Damaged tools<br>H – Crew incompetent for task<br>H – Inadequate PPE<br>E - Injury<br>E – Death<br>E – Damage to vessel<br>E – Fire   | Crew involved   | 4  | C   | C4   | 9. Verify weather forecast is suitable for the planned task (A)<br>10. Follow PPE matrix, verify all PPE are in good condition. (PPE)<br>11. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)<br>12. Adhere to FS-01-IMS17-001<br>Emergency Response Manual (A)<br>13. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>14. Emergency equipment is available and maintained as per PMS (A) |
| Tools selection  | H - Inadequately maintained tools<br>H – Improper tools used for the job<br>H: Use of Equipment<br>H: Vibration  | Crew  | 2  | C   | C2   | 15. If no guards present, then tools not to be used (E)<br>16. Isolate work area to prevent noise or vibration exposure, as required (I)   |

| Maintenance -Deck – Chipping Including Use of Wire Brush       |   |   |  | GRA. No   |   | FS-01-IMS03-001-B-015  |  |  |  |
|--|---|---|--|---|---|--|--|--|--|
| Title/ Description   | FS-01-IMS03-001 Health & Safety at Work   |   |  | Life Saving Rule  |   | Line of Fire   |  |  |  |
| Reference Source   | IMS Procedure   |   |  |   |   |  |  |  |  |
| Tasks  | A: Hazard   |   | Personnel at Risk  | B: Initial Risk   |   | C: Controls  |  | D: Residual Risk   |  |
|  | Hazard Description and Effect   |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  |  |  |  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                                      | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>(high, medium or low)</b> | Potential Severity   | Likelihood of Occurrence   | Risk Rating  |  |
|  | E: Harm to body<br>E: HAVS (Hand Arm Vibration Syndrome)<br>E: Poor quality standards of equipment used<br>E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration syndrome), white finger, etc.<br><br>E - Injury |   |  |   |   | From matrix, identify consequence with controls in place for each hazard. (1-5)  | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard<br><b>(high, medium or low)</b> |  |
|  |   |   |  |   |   | 17. Use of Hand arm vibration calculator or tool specifications to establish safe working period (I)<br><br>18. Check all safety guards / trips in place and operational prior use. (En)<br><br>19. Select the lowest vibration tool suitable for the job (En)<br><br>20. Selection of tools suitable for the task and area of operation (A)<br><br>21. Thorough check of tools and accessories prior use. (A)<br><br>22. Tools used and maintained as per makers instructions in an ergonomic way. (A)<br><br>23. Be aware of HAVS symptoms to allow early detection. Discuss hazard and safe working period in toolbox (A)<br><br>24. Maximum trigger times of tools to be known in line with Noise and Vibration procedure. (A) |  |  |  |

Generic Risk Assessment

| Maintenance -Deck – Chipping Including Use of Wire Brush |                                |  |   | FS-01-IMS03-001 Health & Safety at Work  |   | GRA. No   | FS-01-IMS03-001-B-015  |  |  |
|--|--------------------------------|--|---|--|---|---|--|--|--|
| Title/ Description                                       | Code of safe working practices |  |   | IMS Procedure  | Life Saving Rule  |   |  |  |  |
| Reference Source   |                                |  |   |  |   |   |  |  |  |
| Tasks  | A: Hazard                      |  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   |  | D: Residual Risk   |  |
|  | Hazard Description and Effect  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |  |  |
|  |                                |  |   | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) | Potential Severity   | Likelihood of Occurrence   | Risk Rating  |
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| Maintenance -Deck – Chipping Including Use of Wire Brush       |  |   |  |   | GRA. No  | FS-01-IMS03-001-B-015   |   |  |  |
|--|--|---|--|---|--|---|---|--|--|
| Title/ Reference Source  | Code of safe working practices   |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   |  | Life Saving Rule  | Line of Fire  |  |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  | D: Residual Risk  |   |  |  |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   | Risk Rating  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |
|  | H – Failure to identify hazards of work area<br>H – Slips trips and falls<br>H – Debris from chipping contaminating surrounding areas<br><br>E – Injury<br>E – Equipment, vessel damage<br>E – Environmental impact      |   |  |   |  | If positive, refer to Hexavalent Chromium-6 Cr(VI) GRA (En)<br><br>32. Additional lights used if required. (En)<br><br>33. Atmosphere in the space checked before commencing work. (En)<br><br>34. Additional forced ventilation if required, to maintain atmosphere (En)<br><br>35. Existing lights to be maintained in good working condition. (A)<br><br>36. Relevant permit to work and TRA obtained prior commencing work in the confined space. (A)<br><br>37. SLAM (A)<br><br>38. Clear work area of possible obstacles or inflammable substances, as required (A) |   |  |  |
| Chipping including use of wire brush operation                 | H - Vessel's motion (Rolling, pitching etc due to weather)<br>H – Communication failure  | Crew  | 3  | C   | C3   | <b>Control measures 1 to 38, as applicable</b><br><br>39. Monitor weather condition throughout the task, if unfavourable stop task. (E)   | 2   | B  | B2   |



Generic Risk Assessment

| Maintenance -Deck – Chipping Including Use of Wire Brush       |  |   |  | GRA. No   |  | FS-01-IMS03-001-B-015  |  |   |
|--|--|---|--|---|--|--|--|---|
| Title/ Description   | Code of safe working practices   |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  |  | Life Saving Rule   | Line of Fire  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |  | D: Residual Risk   |   |
|  | Hazard Description and Effect  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A = Administration<br><br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |  |   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. |   | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | Potential Severity   | Likelihood of Occurrence   | Risk Rating   |
|  | H – Flying particles and debris<br>H - Fatigue<br><br>E - Injury<br>E – Equipment damage   |   |  |   |  | From matrix, identify consequence with controls in place for each hazard. (1-5)  | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard <b>(high, medium or low)</b> |
| Secure area after chipping including use of wire brush         | H – Debris not properly disposed of<br>H – Poor housekeeping<br>H – Slips trips and falls<br><br>E - Environmental impact<br>E – Injury  | Crew  | 1  | C   | C1   | 1  | A  | A1  |
|  |  |   |  |   |  |  |  |   |
|  |  |   |  |   |  |  |  |   |
|  |  |   |  |   |  |  |  |   |
|  |  |   |  |   |  |  |  |   |
| Assessor's Name(s)   | Reviewers Name(s)  |   | Date   | 1 September 2022  | Time   | 08:00  |  |   |
| Miguel Ganuza, Melvin Fernandes (Initial 2021)                 | Muru Palaney, Tommaso Perelli (Initial 2021)   |   | Location   | FS  | Rev. No  | 01   |  |   |
| Marino Buselic, Vijay Mundath (Review 2022)                    | Tommaso Perelli, Muru Palaney (Review 2022)  |   | Approval   | Julia Korpak  | Date   | 1 September 2022   |  |   |

## Generic Risk Assessment

| Title/ Description   | Maintenance -Deck – Chipping Including Use of Wire Brush   |   |  |   |   |   | GRA. No  | FS-01-IMS03-001-B-015   |
|--|--|---|--|---|---|---|--|---|
| Reference Source   | Code of safe working practices   |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   |   | Life Saving Rule  |  | Line of Fire  |
| Tasks  | A: Hazard  | B: Initial Risk   | C: Controls  | D: Residual Risk  | Risk Rating   | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Hazard Description and Effect  | Personnel at Risk   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. |   |   |   |  |   |
|  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5)   | From matrix, identify Likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
|  |  |   | Next Review date   |   | 31 August 2023  |   |  |   |

**fucro**

Generic Risk Assessment

| Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer |  |   |  |   | GRA. No  |   | FS-01-IMS03-001-B-016   |  |
|--|--|---|--|---|--|---|---|--|
| Title/ Description   | Code of Safe Working Practices   |   |  | IMS Procedure   |  | Life Saving Rule  |   | Line of Fire   |
| Reference Source   | FS-01-IMS03-001 Health & Safety at Work  |   |  |   |  |   |   |  |
| Tasks  | A: Hazard  |   | B: Initial Risk  |   | C: Controls  |   | D: Residual Risk  |  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   |
| Separate the job into individual tasks and record in sequence.                   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><b>(high medium or low)</b> |   | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  | E – Occupational health injuries, such as Induced hearing loss; Tinnitus, HAVS (Hand arm vibration syndrome), white finger, etc.<br><br>E – Improper measures in place   |   |  |   |  | 8. All personnel involved to comply with cultural awareness and no harassment policy (A)<br>9. Plan work schedule and regular breaks, comply with work and rest hours (A)<br>10. Comply with speak up policy (A)<br>11. Be aware of HAVS symptoms to allow early detection. Discuss hazard and safe working period in toolbox (A)<br>12. Maximum trigger times of tools to be known in line with Noise and Vibration procedure. (A)<br>13. Supervisors to monitor vibration exposure using the calculator belonging to and in line with Noise and Vibration procedure (A)<br>14. Noise exposure levels to be monitored by site supervisors. (A)<br>15. Work share/rotation of task is recommended to reduce |   |  |
|  |  |   |  |   |  |   |   |  |

Generic Risk Assessment

| Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer |  |   |  |   | GRA. No  | FS-01-IMS03-001-B-016  |   |  |   |
|--|--|---|--|---|--|--|---|--|---|
| Title/ Description   | Code of Safe Working Practices   |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work  | Life Saving Rule   | Line of Fire  |  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  | D: Residual Risk   |   |  |   |
|  | Hazard Description and Effect  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A = Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence.                   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. |   | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard <b>(high, medium or low)</b> |
|  |  |   |  |   |  | individual exposure to noise (and vibration). (A)<br><br>16. Planning of tasks including suitable breaks from noise/vibration exposure (A)<br><br>17. Use of equipment and material by competent and/or trained personnel (A)<br><br>18. Job rotated to avoid repetitive stress injury. (A)<br><br>19. Monitor possible conflict with SIMOPS (A)<br><br>20. Verify weather forecast is favourable for the task (A)<br><br>21. Follow PPE matrix (PPE).<br><br>22. All PPE must be in good condition. (PPE) |   |  |   |
| Emergency preparedness for potential emergency situation (Contaminations,        | H – Health Emergencies<br>H – Environmental Emergencies<br>H– Incorrect use of substance<br>H – Untrained personnel  | Crew  | 4  | C   | C4   | 23. Follow the appropriate emergency response checklist Appendix FS-01-IMS17-001-A Emergency Response Checklists (A)   | 4   | A  | A4  |

Generic Risk Assessment

| Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer |  |   |  |   | GRA. No   | FS-01-IMS03-001-B-016   |
|--|--|---|--|---|---|---|
| Title/ Description   | Code of Safe Working Practices   |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   | Life Saving Rule  | Line of Fire  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   | D: Residual Risk  |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Potential Severity  |
|  |  |   |  |   |   |   |
| Separate the job into individual tasks and record in sequence.                   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b>  | From matrix, identify consequence with controls in place for each hazard. (1-5)   |
|  |  |   |  |   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | From matrix, identify likelihood with controls in place for each hazard. (A-E)  |
| burns, poisoning, skin irritations, eye irritations, electrical shock, etc.)     | E – Death<br>E - Injury/illness of personnel<br>E – Damage to vessel<br>E – Damage to 3rd party property   |   |  |   | 24. Adhere to FS-01-IMS17-001<br>Emergency Response Manual (A)<br>25. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>26. Emergency equipment is available and maintained as per PMS (A)  |   |
|  |  |   |  |   | 27. Area to be cleared of as much debris as possible prior to commencing work. (E)<br>28. Secure loose equipment in the area to prevent damage or loss (I)<br>29. Isolate work area as appropriate to prevent accidental access (I)<br>30. Adequate ventilation in the space where chemicals are used. (En)<br>31. Existing lights to be maintained in good working condition. (A)<br>32. Additional lights used if required. (A) |   |
| Area preparation   | H – Improper lighting in place<br>H - Inadequate ventilation<br>H – Slips trips and falls<br>H - Harmful chemical reaction<br><br>E – Injury<br>E – Equipment damage   | Crew  | 2  | C   | C2  | 2<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br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| Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer |   |   |  |   | GRA. No  | FS-01-IMS03-001-B-016   |  |
|--|---|---|--|---|--|---|--|
| Title/ Description   | Code of Safe Working Practices  |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   |  | Life Saving Rule  |  |
| Tasks  | A: Hazard   | Personnel at Risk   | B: Initial Risk  |   | C: Controls  | D: Residual Risk  |  |
|  | Hazard Description and Effect   | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br><br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  |  |
| Separate the job into individual tasks and record in sequence.                   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.                                  |   | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> | From matrix, identify consequence with controls in place for each hazard. (1-5)   | From matrix, identify likelihood with controls in place for each hazard. (A-E) |
|  |   |   |  |   |  | 33. Monitor weather condition for the planned task. (A)<br>34. Verify compatibility of chemicals as per SDS with area of application (A)  |  |
| Selection of equipment and materials   | H - Inadequately maintained equipment<br>H - Use of material inadequate for task<br>H - Safety trips / Guards missing on equipment<br>H - Safety data sheet not consulted<br>H - Improper handling of chemicals<br><br>E – Injury<br>E – Equipment damage | Crew  | 3  | C   | C3   | 35. Mixing (if any) of chemicals are done in open or well ventilated area. (I)<br>36. Maintenance of equipment as per manufacturer's instructions. (En)<br>37. Check all safety guards / trips in place and operational prior use. (En)<br>38. Select equipment suitable for task and for area of operation (A)<br>39. Checks as per manufacturer's instructions prior use. (A)<br>40. Safety data sheets for the product to be consulted prior to use. (A)<br>41. COSHH assessment in place and reviewed before task has been commenced. (A) | 2  |
|  |   |   |  |   |  |   |  |
|  |   |   |  |   |  |   | B2   |



| Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer |  |   |   |  | GRA. No   |  | FS-01-IMS03-001-B-016   |  |                  |  |  |
|--|--|---|---|--|---|--|---|--|------------------|--|--|
| Title/ Description   |  | Code of Safe Working Practices  |   |  | IMS Procedure   |  | FS-01-IMS03-001 Health & Safety at Work   |  | Life Saving Rule |  |  |
| Reference Source   |  |   |   |  |   |  |   |  |                  |  |  |
| Tasks  |  | A: Hazard   |   | Personnel at Risk  | B: Initial Risk   |  | C: Controls   |  | D: Residual Risk |  |  |
|  |  | Hazard Description and Effect   | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En= Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   |  |                  |  |  |
| Separate the job into individual tasks and record in sequence.                   |  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.          | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |   |  |                  |  |  |
|  |  |   |   |  |   |  | 42. Check availability of SDS and appropriate response equipment is at hand (A)<br><br>43. Personnel to be trained in safe use of chemicals. (A)<br><br>44. Adequate supervision provided. (A)  |  |                  |  |  |
| Cleaning including use of chemicals and high-pressure washer operation execution |  | H - Incorrect operation of high pressure washer<br>H - Vessel's motion (Rolling, pitching etc due to weather)<br>H - Skin / eye contact with flying debris<br>H – Slips trips and falls<br><br>E – Injury<br>E – Equipment damage | Crew  | 3  | C   | C3   | Control measures 1 to 44, as applicable<br><br>45. Monitor weather, stop operations if weather deteriorates (E)<br><br>46. Use of equipment according manufacturer instructions (A).<br><br>47. Adequate supervision maintained. (A)<br><br>48. Maintain good housekeeping during operations to prevent creating obstacles in work area (A)<br><br>49. Be aware of hazards of stored energy (A)<br><br>50. SLAM (A)<br><br>51. Stop the Job (A) |  |                  |  |  |
|  |  |   |   |  |   |  | 3<br><br>B<br><br>B3  |  |                  |  |  |

| Maintenance -Deck – Cleaning Including Use of Chemicals and High-Pressure Washer |  |   |  | GRA. No   | FS-01-IMS03-001-B-016  |  |   |  |  |
|--|--|---|--|---|--|--|---|--|--|
| Title/ Description   | Code of Safe Working Practices   |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   |  | Life Saving Rule   | Line of Fire  |  |  |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  | D: Residual Risk   |   |  |  |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | Potential Severity  | Likelihood of Occurrence   | Risk Rating  |
| Separate the job into individual tasks and record in sequence.                   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>(high, medium or low)</b> |
| Securing area after cleaning operations  | H – Debris not properly disposed of<br>H – Chemical products nor properly disposed of<br>H – Poor housekeeping<br>H – Slips trips and falls<br><br>E - Environmental impact<br>E – Injury                                | Crew  | 1  | C   | C1   | 52. Secure area, clear of debris (I)<br>53. Inspect work area after completion and remove any equipment and materials used (A)<br>54. Inspect equipment after work and segregate if damaged (A)<br>55. Dispose of chemical products or residues in line with SDS and COSHH (A)   | 1   | A  | A1   |
| Assessor's Name(s)   | Reviewers Name(s)  | Date  | 1 September 2022   | Time  | 08:00  |  |   |  |  |
| Miguel Ganuza, Melvin Fernandes (Initial 2021)                                   | Muru Palaney, Tommaso Perelli (Initial 2021)   | FS  | 01   | 1 September 2022  | 01   |  |   |  |  |
| Marino Buselic, Vijay Mundath (Review 2022)                                      | Tommaso Perelli, Muru Palaney (Review 2022)  | 31 August 2023  | Approval   | Julia Korpak  | Date   | 1 September 2022   |   |  |  |

# Generic Risk Assessment

| Title/ Description   |  |  | Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging |   |  |  | GRA. No |  | FS-01-IMS03-001-B-017 |  |  |
|--|--|--|--|---|--|--|---------|--|-----------------------|--|--|
| Reference Source   |  | COSWP  |  | IMS Procedure   |  | FS-01-IMS14-001 - Deck Procedures  |         | Life Saving Rule   |                       | Line of Fire   |  |
| Tasks  |  | A: Hazard  |  | Personnel at Risk   |  | B: Initial Risk  |         | C: Controls  |                       | D: Residual Risk   |  |
|  |  | Hazard Description and Effect  |  | Personnel at Risk   |  | Potential Severity   |         | Likelihood of Occurrence   |                       | Risk Rating  |  |
| Separate the job into individual tasks and record in sequence. |  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. |  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. |  | From matrix, identify consequence with no controls in place for each hazard. (1-5) |         | From matrix, identify likelihood with no controls in place for each hazard. (A-E)  |                       | Classify risk rating from matrix for each hazard.<br><b>(high, medium or low)</b>  |  |
| Pilot boarding preparation                                     |  | H – Communication misunderstanding<br>H – Instructions misunderstanding<br>H: Poor mental health of crew involved<br>H: Unfavourable work environment (stress, victimization, etc.)<br><br>E – Incorrect ladder rigging  |  | Crew  |  | 1  |         | C  |                       | C1   |  |
|  |  |  |  |   |  |  |         | 1. Radio communication with pilot station and pilot boat established and pilot boarding requirements agreed (A)<br><br>2. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A)<br><br>3. All personnel involved to comply with cultural awareness and no harassment policy (A)<br><br>4. Plan work schedule and regular breaks, comply with work and rest hours (A)<br><br>5. Comply with speak up policy (A)<br><br>6. Toolbox talk between all personnel involved in the |                       | 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Generic Risk Assessment

| Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging   |  |  |  |   | GRA. No  |   | FS-01-IMS03-001-B-017   |  |   |  |   |
|--|--|--|--|---|--|---|---|--|---|--|---|
| Title/ Description   |  | IMS Procedure  |  |   | FS-01-IMS14-001 - Deck Procedures  |   | Line of Fire  |  |   |  |   |
| Reference Source   |  | COSWP  |  |   | Life Saving Rule   |   |   |  |   |  |   |
| Tasks  |  | A: Hazard  |  | B: Initial Risk   |  | C: Controls   |   | D: Residual Risk   |   |  |   |
|  |  | Hazard Description and Effect  |  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence.   |  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. |  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low) |
|  |  |  |  |   |  |   |   | operation, including review of TRA (A)<br>7. Check and monitor weather conditions (A)<br>8. Follow MOPO (A)<br>9. Follow the appropriate emergency response checklist<br>Appendix FS-01-IMS17-001-A<br>Emergency Response Checklists (A)<br>10. Adhere to FS-01-IMS17-001<br>Emergency Response Manual (A)<br>11. Crew to be trained to respond to emergency by participating in drills as per drill matrix and planned jobs (A)<br>12. Emergency equipment is available and maintained as per PMS (A)<br>13. Maintain good housekeeping and remove any obstruction around pilot boarding area (E) |   |  |   |
| Emergency preparedness for potential emergency situation (Equipment failure, weather condition, MOB, Capsize of Pilot boat, damage to equipment, etc.) |  | H – Equipment failure<br>H – Unfamiliar crew<br>H – Lack of Pilot experience<br>H – Weather condition<br><br>E – MOB<br>E – Injury<br>E – Damage to equipment<br>E – Damage to 3 <sup>rd</sup> party property            |  | Crew involved   | 4  | C   | C4  |  | 4   | A  | A4  |
| Pilot ladder rigging   |  | H – Slips and trips<br>H – Communication misunderstanding<br>H – Instructions misunderstanding   |  | Crew  | 4  | C   | C4  |  | 4   | A  | A4  |

| Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging |           |               |             | GRA. No                           |  | FS-01-IMS03-001-B-017 |  |
|--|-----------|---------------|-------------|-----------------------------------|--|-----------------------|--|
| Reference Source   |           | COSWP         |             | FS-01-IMS14-001 - Deck Procedures |  | Line of Fire          |  |
| Tasks  | A: Hazard | IMS Procedure | C: Controls |                                   |  | D: Residual Risk      |  |
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| Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging |  |  |  |   | GRA. No                           |  | FS-01-IMS03-001-B-017 |  |              |   |  |   |  |
|--|--|--|--|---|-----------------------------------|--|-----------------------|--|--------------|---|--|---|--|
| Title/ Description   |  | Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging   |  |   | FS-01-IMS14-001 - Deck Procedures |  | Life Saving Rule      |  | Line of Fire |   |  |   |  |
| Reference Source   |  | COSWP  |  | IMS Procedure   |                                   |  |                       |  |              |   |  |   |  |
| Tasks  |  | A: Hazard  |  | Personnel at Risk   |                                   | B: Initial Risk  |                       | C: Controls  |              | D: Residual Risk  |  |   |  |
|  |  | Hazard Description and Effect  |  | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. |                                   | Potential Severity   |                       | Likelihood of Occurrence   |              | Risk Rating   |  |   |  |
| Separate the job into individual tasks and record in sequence.   |  | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. |  |   |                                   | From matrix, identify consequence with no controls in place for each hazard. (1-5) |                       | From matrix, identify likelihood with no controls in place for each hazard. (A-E)  |              | Classify risk rating from matrix for each hazard. (high, medium or low)   |  |   |  |
|  |  |  |  |   |                                   |  |                       | 23. Check and monitor weather conditions (A)<br>24. Follow MOPO (A)<br>25. SLAM (A)<br>26. Stop the Job (A)<br>27. Personnel involved to wear inflatable and SOLAS approved work vests/PFD's, safety lines. (PPE)<br>28. Correct PPEs to be used (PPE)<br>29. Monitor weather conditions, abort operations if conditions require it (E)<br>30. Pilot to climb with hands free (I)<br>31. Luggage to be picked up separately (I)<br>32. Set agreed speed and heading (En)<br>33. Create lee way as required in agreement with pilot boat (En)<br>34. Internal communication about pilot boat approach (A) |              | From matrix, identify consequence with controls in place for each hazard. (1-5)<br><br>From matrix, identify likelihood with controls in place for each hazard. (A-E) |  | Classify risk rating from matrix for each hazard. (high, medium or low) |  |
| Pilot transfer operations  |  | H – Slips and trips<br>H – Weather, sea state<br>H – Pilot boat approach in unsafe manner<br>E – Fall overboard<br>E – Injury<br>E – Fatality<br>E – equipment damage, collision   |  | Crew, pilot, pilot boat crew  |                                   | 4  |                       | D  |              | D4  |  |   |  |
|  |  |  |  |   |                                   |  |                       |  |              | 4<br><br>A<br><br>A4  |  |   |  |

Generic Risk Assessment

| Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging |  |   |  | GRA. No   |   | FS-01-IMS03-001-B-017   |
|--|--|---|--|---|---|---|
| Title/ Description   | FS-01-IMS14-001 - Deck Procedures  |   |  | Life Saving Rule  |   | Line of Fire  |
| Reference Source   | COSWP  |   |  | IMS Procedure   |   |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   | D: Residual Risk  |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Potential Severity  |
| Separate the job into individual tasks and record in sequence.   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. (high, medium or low)   | From matrix, identify consequence with controls in place for each hazard. (1-5) |
|  |  |   |  |   | Classify risk rating from matrix for each hazard. (high, medium or low)   | From matrix, identify likelihood with controls in place for each hazard. (A-E)  |
|  |  |   |  |   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S= Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | From matrix, identify consequence with controls in place for each hazard. (1-5) |
|  |  |   |  |   | 35. Bridge communication with pilot boat, about speed and lee way (A)<br>36. Personnel involved to wear inflatable and SOLAS approved work vests/PFD's, safety lines (PPE)  |   |
| Pilot ladder recovery  | H – Slips and trips<br>H – incorrect ladder recovery<br>H – Weather, sea state<br>E – Fall overboard<br>E – Injury<br>E – Fatality<br>E – equipment damage   | Crew  | 4  | C   | C4  | 4<br>A<br>A4  |
|  |  |   |  |   | 37. Maintain good housekeeping (E)<br>38. Lifebuoy line & light in place and MOB boat on standby (En)<br>39. Correct manual handling techniques (En)<br>40. Proper supervision (A)<br>41. Inform bridge when pilot boarding area is secured (A)<br>42. Correct PPE (PPE)<br>43. All personnel to wear inflatable SOLAS approved work vests / PFD's (PPE)          |   |
| Assessor's Name(s)   | Reviewers Name(s)  |   | Date   |   | Time  |   |
| Tommaso Perelli (Initial 2021)                                   | Muru Palaney (Initial 2021)  |   | 1 September 2022   |   | 08:00   |   |
|  |  |   | Location   |   | Rev. No   |   |
|  |  |   | FS   |   | 01  |   |



## Generic Risk Assessment

| Pilot Transfer Operations by Pilot Boat and Pilot Ladder Rigging |  |   |  |   | GRA. No   | FS-01-IMS03-001-B-017  |   |  |   |
|--|--|---|--|---|---|--|---|--|---|
| Title/ Description   | Reference Source   | COSWP   | IMS Procedure  | FS-01-IMS14-001 - Deck Procedures   | Life Saving Rule  | Line of Fire   |   |  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls   | D: Residual Risk   |   |  |   |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both. | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence.   | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <div>high</div> <div>medium</div> or <div>low</div> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <div>high</div> <div>medium</div> or <div>low</div> |
| Marino Buselic, Vijay Mundath (Review 2022)                      | Tommaso Perelli, Muru Palaney (Review 2022)  |   | Approval   | Julia Korpak  | Date  | 1 September 2022   |   |  |   |
|  |  |   | Next Review date   | 31 August 2023  |   |  |   |  |   |

# Generic Risk Assessment

| Working Over the Side - Operations and Rescue                  |  |   |  | GRA. No   | FS-01-IMS03-001-B-018   |  |   |  |   |
|--|--|---|--|---|---|--|---|--|---|
| Title/ description   | Code of Safe Working Practices for Merchant Seafarers – Ch 17  |   | IMS Procedure  | FS-01-IMS03-001 Health & Safety at Work   |   | Life Saving Rule   | Working at Height   |  |   |
| Tasks  | A: Hazard  | B: Initial Risk   | C: Controls  | D: Residual Risk  |   |  |   |  |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE= Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.  | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work.   | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><div>(high, medium or low)</div> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard.<br><div>(high, medium or low)</div> |
| Work over the side preparation                                 | H – Communication failure<br>H – Procedure lack of understanding<br>H – Failure to plan the task<br>H – Failure to identify hazards of work area<br>H: Poor mental health of crew involved<br>H: Unfavourable work environment (stress, victimization, etc.)<br><br>E – improper measures in place | Crew  | 1  | C   | C1  | 1. Consider if task can be executed without work over side (E)<br>2. Use engineering controls such as fixed platforms with guards, scissor lifts, etc. if applicable (En)<br>3. Lifebuoy with line & light available for immediate use (En)<br>4. Use permanent fall arrests and equipment limiting the movement, if applicable (En)<br>5. Follow working at height and over the side procedure (A)<br>6. Person performing task should be fit for work. Take in account crewmember capabilities, limitations, body weight, body size, mental health, physical health limitations. (A) | 1   | A  | A1  |

Generic Risk Assessment

| Working Over the Side - Operations and Rescue                  |  |   |  |   | GRA. No  | FS-01-IMS03-001-B-018   |
|--|--|---|--|---|--|---|
| Title/ description   | Code of Safe Working Practices for Merchant Seafarers – Ch 17  |   |  |   | Life Saving Rule   |   |
| Reference Source   | IMS Procedure  |   |  |   | Working at Height  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |   |
|  | Hazard Description and Effect  | Personnel at Risk   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | D: Residual Risk  |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high</b> , <b>medium</b> or <b>low</b>  | From matrix, identify consequence with controls in place for each hazard. (1-5)             |
|  |  |   |  |   | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | From matrix, identify likelihood with controls in place for each hazard. (A-E)              |
|  |  |   |  |   | 7. All personnel involved to comply with cultural awareness and no harassment policy (A)<br>8. Plan work schedule and regular breaks, comply with work and rest hours (A)<br>9. Comply with speak up policy (A)<br>10. Provide proper supervision of the task in line with PTW (A)<br>11. Allow only trained personnel to work. (A)<br>12. Use only approved, certified and properly maintained equipment. (A)<br>13. Inspection of all fall protection staging, platforms, ladders, PPE by competent person prior to job (A)<br>14. Use of equipment by competent and/or trained personnel (A)<br>15. Assess task and complete PTW/TRA (A)<br>16. Create rescue plan, including rescue from height and recovery | Classify risk rating from matrix for each hazard. <b>high</b> , <b>medium</b> or <b>low</b> |

Generic Risk Assessment

| Working Over the Side - Operations and Rescue                  |  |   |  | GRA. No   | FS-01-IMS03-001-B-018  |  |   |  |   |
|--|--|---|--|---|--|--|---|--|---|
| Title/ description   | Code of Safe Working Practices for Merchant Seafarers – Ch 17  |   |  | IMS Procedure   | FS-01-IMS03-001 Health & Safety at Work                                      | Life Saving Rule   | Working at Height   |  |   |
| Reference Source   |  |   |  |   |  |  |   |  |   |
| Tasks  | A: Hazard  | Personnel at Risk   | B: Initial Risk  |   | C: Controls  |  | D: Residual Risk  |  |   |
|  | Hazard Description and Effect  |   | Potential Severity   | Likelihood of Occurrence  | Risk Rating  | Describe fully all controls applicable for each hazard. Control measures must be listed according to Hierarchy of Controls as follows<br><br>E= Elimination<br>S=Substitution<br>I = Isolation<br>En=Engineering Controls<br>A= Administration<br>PPE=Personal Protective Equipment.<br>All controls must be valid in that they reduce severity, likelihood or both.   | Potential Severity  | Likelihood of Occurrence   | Risk Rating   |
| Separate the job into individual tasks and record in sequence. | Describe all hazards identified and their effects for each task (from Hazard ID checklist and based on observations and experience).<br><b>Note:</b><br>Additional hazards may be caused by interaction with other work. | Name all types of personnel at risk. Remember to include people outside the work party who may be affected. | From matrix, identify consequence with no controls in place for each hazard. (1-5) | From matrix, identify likelihood with no controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard. <b>high, medium or low</b> |  | From matrix, identify consequence with controls in place for each hazard. (1-5) | From matrix, identify likelihood with controls in place for each hazard. (A-E) | Classify risk rating from matrix for each hazard <b>high, medium or low</b> |
|  |  |   |  |   |  | of mano overboard, as applicable (A)<br><br>17. Always provide watchman with reliable communication line(s) (VHF/UHF radios). (A)<br><br>18. Communication means and channels agreed and established (A)<br><br>19. Assess weather for duration of task (A)<br><br>20. Follow MOPO guidelines (A)<br><br>21. Monitor possible conflict with SIMOPS (A)<br><br>22. TBT with all involved (A)<br><br>23. When work systems are involved, consider Lock out Tag out and additional control measures and PTW as applicable (A)<br><br>24. Consider environmental risks and measures as result of the work activity (A)<br><br>25. Establish correct length of fall arrest systems (such as lanyard |   |  |   |